Seq. No.	57518	Seq. ID	OJ000350_35.0419.C2
Gene No.	120361	Strand	+
Start	1466	End	10495
Name	OJ000350_35.0419.C2.o2.gp	Method	AAT/GAP
Start	8411	End	9127
GI	5455576	Score	1075
Exons	8411..9127		
GI Descrip.	4544372/gb|AAD22283.1|AC006920_7 6.0e-26 (AC006920) putative reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	57518	Seq. ID	OJ000350_35.0419.C2
Gene No.	120361	Strand	+
Start	1466	End	10495
Name	OJ000350_35.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	8465	End	8825
GI	none	Score	125
Exons	8465..8605, 8469..8615, 8652..8825		

Seq. No.	57518	Seq. ID	OJ000350_35.0419.C2
Gene No.	120361	Strand	+
Start	1466	End	10495
Name	OJ000350_35.0419.C2.o3.ts	Method	TBLASTX:Soybean
Start	9001	End	9409
GI	none	Score	79
Exons	9001..9081, 9003..9086, 9165..9407, 9191..9232, 9290..9409		

Seq. No.	57518	Seq. ID	OJ000350_35.0419.C2
Gene No.	120361	Strand	+
Start	1466	End	10495
Name	OJ000350_35.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	9896	End	10246
GI	none	Score	206
Exons	9896..10246		

Seq. No.	57518	Seq. ID	OJ000350_35.0419.C2
Gene No.	120361	Strand	+
Start	1466	End	10495
Name	OJ000350_35.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	10100	End	10495
GI	none	Score	231
Exons	10100..10495, 10172..10378, 10201..10395		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120362	Strand	+
Start	7845	End	11955
Name	OJ000350_35.0419.C3.o3.gs	Method	GENSCAN
Start	7845	End	11948
GI	none	Score	.84
Exons	7845..7857, 8307..8384, 8398..8574, 8816..8822, 9057..9095, 9449..9614, 9711..9743, 10588..10722, 11111..11348, 11499..11702, 11792..11948		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120362	Strand	+
Start	7845	End	11955
Name	OJ000350_35.0419.C3.o5.np	Method	AAT/NAP
Start	9562	End	11955

GI	3243234	Score	982
Exons	9562..9743, 10588..10722, 11111..11348, 11499..11702, 11792..11955		
GI Descrip.	(AF071477) isoflavone reductase related protein [Pyrus communis]		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120363	Strand	-
Start	1	End	3236
Name	OJ000350_35.0419.C3.o3.np	Method	AAT/NAP
Start	1	End	3236
GI	7106512	Score	87
Exons	1..38, 3000..3105, 3177..3236		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120363	Strand	-
Start	1	End	3236
Name	OJ000350_35.0419.C3.o1.np	Method	AAT/NAP
Start	1358	End	1445
GI	5902445	Score	75
Exons	1358..1445		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120363	Strand	-
Start	1	End	3236
Name	OJ000350_35.0419.C3.o2.np	Method	AAT/NAP
Start	1663	End	3007
GI	4680183	Score	528
Exons	1663..3007		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120364	Strand	-
Start	3893	End	5906
Name	OJ000350_35.0419.C3.o1.gp	Method	AAT/GAP
Start	3893	End	4405
GI	uC-osflcyp046b11b1	Score	1014
Exons	3893..4405		
GI Descrip.	'2621798 5.0e-20 (AE000850) transcriptional regulator [Methanobacterium thermoautotrophicum]'		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120364	Strand	-
Start	3893	End	5906
Name	OJ000350_35.0419.C3.o4.np	Method	AAT/NAP
Start	4177	End	5906
GI	4929731	Score	239
Exons	4177..4405, 4547..4612, 4700..4825, 5750..5906		
GI Descrip.	(AF151889) CGI-131 protein [Homo sapiens]		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120364	Strand	-
Start	3893	End	5906
Name	OJ000350_35.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	4183	End	4623

GI	none	Score	146
Exons	4183..4392, 4208..4405, 4210..4398, 4546..4578, 4564..4623		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120364	Strand	-
Start	3893	End	5906
Name	OJ000350_35.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	4208	End	4792
GI	none	Score	213
Exons	4208..4405, 4208..4387, 4210..4398, 4546..4611, 4547..4612, 4586..4612, 4685..4792, 4685..4771, 4699..4788		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120364	Strand	-
Start	3893	End	5906
Name	OJ000350_35.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	4539	End	4793
GI	none	Score	78
Exons	4539..4613, 4546..4614, 4546..4611, 4685..4792, 4689..4793, 4699..4788		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120365	Strand	
Start	9568	End	11991
Name	OJ000350_35.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	9568	End	11952
GI	none	Score	95
Exons	9568..9648, 10588..10722, 10608..10712, 11086..11277, 11105..11287, 11305..11355, 11306..11347, 11500..11679, 11501..11725, 11513..11701, 11790..11852, 11791..11853, 11856..11942, 11857..11952		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120365	Strand	
Start	9568	End	11991
Name	OJ000350_35.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	9568	End	11969
GI	none	Score	89
Exons	9568..9639, 10587..10712, 10588..10722, 11086..11352, 11105..11287, 11306..11347, 11501..11725, 11503..11688, 11516..11716, 11784..11969, 11791..11952, 11799..11960		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120365	Strand	
Start	9568	End	11991
Name	OJ000350_35.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	10587	End	11341
GI	none	Score	174
Exons	10587..10712, 10588..10722, 10588..10722, 11086..11340, 11105..11341		

Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120365	Strand	
Start	9568	End	11991
Name	OJ000350_35.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	11534	End	11958
GI	none	Score	201

Exons	11534..11725, 11543..11698, 11784..11951, 11791..11958		
Seq. No.	57519	Seq. ID	OJ000350_35.0419.C3
Gene No.	120365	Strand	
Start	9568	End	11991
Name	OJ000350_35.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	11553	End	11991
GI	none	Score	97
Exons	11553..11687, 11553..11669, 11554..11697, 11555..11725, 11558..11701, 11790..11942, 11791..11991, 11803..11964		
Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120366	Strand	+
Start	3756	End	4256
Name	OJ000350_35.0419.C4.o1.np	Method	AAT/NAP
Start	3756	End	4256
GI	6721512	Score	259
Exons	3756..4025, 4068..4104, 4217..4256		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o2.np	Method	AAT/NAP
Start	6405	End	8311
GI	4582435	Score	1785
Exons	6405..8311		
GI Descrip.	(AC007196) putative selenium-binding protein [Arabidopsis thaliana]		
Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	6587	End	8032
GI	none	Score	45
Exons	6587..6676, 6734..6823, 6761..6832, 6959..7219, 6962..7186, 6962..7285, 7097..7270, 7196..7285, 7222..7482, 7232..7504, 7289..7486, 7301..8032, 7312..7422, 7321..7740, 7804..7974		
Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	6734	End	7612
GI	none	Score	82
Exons	6734..6835, 6962..7264, 6964..7257, 7142..7279, 7172..7255, 7298..7612, 7309..7611, 7448..7582		
Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	6734	End	7531
GI	none	Score	62
Exons	6734..6832, 6962..7252, 7181..7285, 7183..7263, 7268..7531, 7309..7452, 7316..7525		

Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	6734	End	7741
GI	none	Score	56
Exons	6734..6820, 6842..6940, 6857..6928, 6947..7267, 7085..7303, 7310..7657, 7385..7534, 7387..7614, 7658..7741, 7669..7737		

Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o3.gs	Method	GENSCAN
Start	7376	End	14831
GI	none	Score	.52
Exons	7376..8310, 8315..8355, 8527..8832, 9824..9855, 12834..13484, 13597..13803, 14315..14530, 14609..14831		

Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	7565	End	8089
GI	none	Score	402
Exons	7565..8089		

Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	7775	End	8314
GI	none	Score	421
Exons	7775..8314, 7786..7974, 8032..8313		

Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	8032	End	8314
GI	none	Score	438
Exons	8032..8313, 8033..8314		

Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	8096	End	8314
GI	none	Score	238
Exons	8096..8314, 8107..8313		

Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o3.np	Method	AAT/NAP
Start	12914	End	14692
GI	2496730	Score	671

Exons	12914..13484, 13597..13803, 14315..14530, 14609..14692		
GI Descrip.	HYPOTHETICAL PROTEIN Y4OU PRECURSOR gi|2182565|gb|AAB91807.1| (AE000089) Y4oU [Rhizobium sp. NGR234]		
Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	13085	End	13351
GI	none	Score	180
Exons	13085..13225, 13085..13330, 13086..13349, 13107..13334, 13271..13351, 13273..13350		
Seq. No.	57520	Seq. ID	OJ000350_35.0419.C4
Gene No.	120367	Strand	+
Start	6405	End	14831
Name	OJ000350_35.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	13633	End	13806
GI	none	Score	117
Exons	13633..13710, 13635..13700, 13687..13806, 13702..13806		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120368	Strand	+
Start	1	End	894
Name	OJ000350_35.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	894
GI	2496731	Score	397
Exons	1..66, 306..559, 740..894		
GI Descrip.	HYPOTHETICAL 30.2 KD PROTEIN Y4OV gi|2182566|gb|AAB91808.1| (AE000089) Y4oV [Rhizobium sp. NGR234]		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120368	Strand	+
Start	1	End	894
Name	OJ000350_35.0419.C5.o1.gs	Method	GENSCAN
Start	340	End	891
GI	none	Score	.77
Exons	340..559, 740..891		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1	End	923
GI	none	Score	115
Exons	1..60, 2..64, 306..560, 307..363, 311..433, 424..570, 738..785, 739..786, 792..923, 793..891		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o2.gs	Method	GENSCAN
Start	1399	End	7157
GI	none	Score	.42
Exons	1399..1684, 1690..1987, 4039..4164, 5456..5619, 6997..7157		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5

Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o2.np	Method	AAT/NAP
Start	5219	End	7569
GI	4581164	Score	1176
Exons	5219..5655, 5792..6815, 6972..7569		
GI Descrip.	(AC006220) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o4.tm	Method	TBLASTX:Maize
Start	5238	End	5570
GI	none	Score	169
Exons	5238..5309, 5309..5416, 5421..5570		

Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	5244	End	5564
GI	none	Score	39
Exons	5244..5309, 5309..5416, 5382..5417, 5413..5562, 5424..5564, 5428..5562		

Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o3.tm	Method	TBLASTX:Maize
Start	5682	End	6218
GI	none	Score	39
Exons	5682..5747, 5759..5791, 5825..5935, 5936..6148, 5964..6011, 6000..6116, 6123..6218, 6178..6216		

Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	5825	End	6154
GI	none	Score	61
Exons	5825..5929, 5826..5936, 5936..6154, 6003..6101		

Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	6050	End	6453
GI	none	Score	60
Exons	6050..6160, 6051..6173, 6132..6452, 6157..6453		

Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	6381	End	6963
GI	none	Score	188

Exons	6381..6449, 6461..6844, 6468..6896, 6471..6962, 6475..6963		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	6795	End	7155
GI	none	Score	105
Exons	6795..7148, 6829..7155		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	6909	End	7267
GI	none	Score	84
Exons	6909..7148, 6922..7146, 7223..7267		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o5.tm	Method	TBLASTX:Maize
Start	6966	End	7178
GI	none	Score	94
Exons	6966..7178, 6969..7154, 6973..7155		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	7193	End	7569
GI	none	Score	187
Exons	7193..7492, 7200..7496, 7205..7501, 7507..7569		
Seq. No.	57521	Seq. ID	OJ000350_35.0419.C5
Gene No.	120369	Strand	-
Start	1399	End	7569
Name	OJ000350_35.0419.C5.o4.tw	Method	TBLASTX:Wheat
Start	7244	End	7569
GI	none	Score	91
Exons	7244..7498, 7301..7495, 7501..7569		
Seq. No.	57522	Seq. ID	OJ000350_35.0419.C6
Gene No.	120370	Strand	-
Start	357	End	5395
Name	OJ000350_35.0419.C6.o1.gs	Method	GENSCAN
Start	357	End	5395
GI	none	Score	.45
Exons	357..491, 543..983, 1040..1058, 1320..1359, 3285..3782, 4500..4683, 5231..5395		
Seq. No.	57522	Seq. ID	OJ000350_35.0419.C6
Gene No.	120370	Strand	-
Start	357	End	5395
Name	OJ000350_35.0419.C6.o1.np	Method	AAT/NAP
Start	3104	End	4529
GI	5852084	Score	89

Exons	3104..3190, 4509..4529		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		
Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120371	Strand	+
Start	1039	End	1408
Name	OJ000350_35.0419.C7.o1.gs	Method	GENSCAN
Start	1039	End	1408
GI	none	Score	.73
Exons	1039..1083, 1361..1408		
Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120372	Strand	-
Start	2437	End	5000
Name	OJ000350_35.0419.C7.o1.np	Method	AAT/NAP
Start	2437	End	5000
GI	6692098	Score	500
Exons	2437..3168, 4854..5000		
GI Descrip.	(AC007764) F22C12.10 [Arabidopsis thaliana]		
Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120373	Strand	-
Start	6001	End	6365
Name	OJ000350_35.0419.C7.o2.np	Method	AAT/NAP
Start	6001	End	6365
GI	119714	Score	76
Exons	6001..6365		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi|82169|pir||S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi|19867|emb|CAA32090| (X13885) extensin (AA 1-620) [Nicotiana tabacum]		
Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120374	Strand	-
Start	7930	End	8098
Name	OJ000350_35.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	2359	End	3184
GI	none	Score	369
Exons	2359..2646, 2366..2647, 2374..2577, 2397..2579, 2403..2585, 2406..2513, 2422..2541, 2423..2542, 2461..2568, 2467..2649, 2476..2652, 2488..2589, 2492..2617, 2531..2677, 2536..2592, 2542..2652, 2567..2644, 2647..2715, 2648..2731, 2648..2827, 2653..2988, 2653..2787, 2654..2938, 2654..2779, 2659..2787, 2660..2779, 2767..2841, 2767..2841, 2774..2857, 2776..2856, 2779..2841, 2920..3111, 2953..3078, 2962..3150, 2964..3140, 2967..3029, 2968..3141, 3007..3171, 3043..3153, 3050..3184, 3061..3144, 3062..3145, 3097..3150		
Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120374	Strand	-
Start	7930	End	8098
Name	OJ000350_35.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	2389	End	3184
GI	none	Score	64
Exons	2389..2628, 2392..2592, 2392..2652, 2392..2592, 2392..2655, 2392..2595, 2392..2589, 2393..2569, 2393..2629, 2393..2644, 2393..2521, 2402..2602, 2423..2617, 2437..2592, 2438..2644,		

2438..2644, 2449..2586, 2459..2644, 2459..2644, 2462..2653,
2524..2592, 2533..2652, 2540..2644, 2582..2644, 2647..2778,
2647..2787, 2647..2787, 2647..2787, 2647..2787, 2648..2752,
2648..2731, 2651..2779, 2653..2748, 2653..2772, 2653..2787,
2654..2779, 2674..2778, 2675..2779, 2683..2787, 2767..2883,
2767..2883, 2767..2841, 2767..2883, 2774..2884, 2774..3151,
2776..2841, 2790..2879, 2926..3183, 2926..3141, 2926..3126,
2926..3150, 2927..3142, 2995..3171, 2995..3150, 2995..3090,
2995..3150, 2996..3184, 3001..3171, 3052..3183, 3064..3171

Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120374	Strand	-
Start	7930	End	8098
Name	OJ000350_35.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	2392	End	3196
GI	none	Score	118

Exons 2392..2652, 2392..2586, 2392..2589, 2392..2586, 2392..2592,
2392..2595, 2393..2569, 2393..2644, 2396..2512, 2402..2581,
2402..2620, 2416..2628, 2419..2619, 2419..2589, 2420..2620,
2423..2620, 2423..2617, 2438..2644, 2443..2589, 2444..2644,
2450..2629, 2454..2522, 2456..2644, 2456..2644, 2459..2644,
2487..2597, 2501..2572, 2507..2644, 2507..2638, 2518..2652,
2600..2644, 2647..2778, 2647..2787, 2647..2787, 2647..2787,
2647..2787, 2648..2779, 2648..2746, 2648..2779, 2648..2779,
2653..2748, 2653..2748, 2653..2787, 2654..2779, 2654..2779,
2654..2743, 2674..2778, 2675..2779, 2683..2787, 2693..2779,
2693..2779, 2695..2733, 2723..2743, 2767..3183, 2767..2841,
2767..2883, 2774..3184, 2828..3196, 2926..3051, 2926..3150,
2926..3126, 2995..3171, 2995..3126, 3052..3183, 3064..3150

Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120374	Strand	-
Start	7930	End	8098
Name	OJ000350_35.0419.C7.o1.gp	Method	AAT/GAP
Start	7930	End	8098
GI	uC-osflcyp039h04b1	Score	304

Exons 7930..8098

GI Descrip. '1617274/emb|CAA96522| 1.0e-09 (Z72152) AMP-binding protein [Brassica napus]'

Seq. No.	57523	Seq. ID	OJ000350_35.0419.C7
Gene No.	120375	Strand	
Start	10736	End	11119
Name	OJ000350_35.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	10736	End	11119
GI	none	Score	115

Exons 10736..10894, 10922..11119

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120376	Strand	+
Start	5588	End	6608
Name	OJ000350_35.0419.C8.o3.np	Method	AAT/NAP
Start	5588	End	6608
GI	1232069	Score	152

Exons 5588..5658, 6323..6464, 6576..6608

GI Descrip. (L77080) cationic peroxidase [Stylosanthes humilis]

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120376	Strand	+
Start	5588	End	6608
Name	OJ000350_35.0419.C8.o2.gs	Method	GENSCAN
Start	6237	End	6464
GI	none	Score	.7
Exons	6237..6464		

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120377	Strand	-
Start	1	End	4803
Name	OJ000350_35.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	4803
GI	7486147	Score	1396
Exons	1..2689, 2823..3231, 3382..4010, 4764..4803		
GI Descrip.	hypothetical protein F25I24.40 - Arabidopsis thaliana gi|4539357|emb|CAB40051.1| (AL049525) putative protein [Arabidopsis thaliana] gi|7267781|emb|CAB81184.1| (AL161518) putative protein [Arabidopsis thaliana]		

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120377	Strand	-
Start	1	End	4803
Name	OJ000350_35.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	6	End	224
GI	none	Score	43
Exons	6..224, 16..57, 85..207		

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120377	Strand	-
Start	1	End	4803
Name	OJ000350_35.0419.C8.o3.tw	Method	TBLASTX:Wheat
Start	6	End	150
GI	none	Score	78
Exons	6..125, 6..149, 7..150		

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120377	Strand	-
Start	1	End	4803
Name	OJ000350_35.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	33	End	452
GI	none	Score	120
Exons	33..248, 252..452		

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120377	Strand	-
Start	1	End	4803
Name	OJ000350_35.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	156	End	573
GI	none	Score	40
Exons	156..218, 189..572, 193..219, 208..573		

Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120377	Strand	-
Start	1	End	4803
Name	OJ000350_35.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	225	End	1169

GI	none	Score	109
Exons	225..455, 537..677, 771..1022, 1005..1169		
Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120377	Strand	-
Start	1	End	4803
Name	OJ000350_35.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	745	End	1124
GI	none	Score	48
Exons	745..804, 746..796, 751..912, 771..911, 811..912, 818..913, 903..1121, 906..1124, 1021..1122		
Seq. No.	57524	Seq. ID	OJ000350_35.0419.C8
Gene No.	120378	Strand	
Start	6210	End	6608
Name	OJ000350_35.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	6210	End	6608
GI	none	Score	185
Exons	6210..6389, 6315..6464, 6323..6463, 6576..6608		
Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120379	Strand	+
Start	1	End	711
Name	OJ000350_35.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	585
GI	7433086	Score	360
Exons	1..585		
GI Descrip.	peroxidase (EC 1.11.1.7) pxdD precursor - alfalfa (fragment) gi|537319|gb|AAB41812.1| (L36158) peroxidase [Medicago sativa]		
Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120379	Strand	+
Start	1	End	711
Name	OJ000350_35.0419.C9.o1.gs	Method	GENSCAN
Start	58	End	711
GI	none	Score	.58
Exons	58..711		
Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120380	Strand	-
Start	4179	End	5434
Name	OJ000350_35.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1	End	546
GI	none	Score	223
Exons	1..306, 334..546		
Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120380	Strand	-
Start	4179	End	5434
Name	OJ000350_35.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1	End	329
GI	none	Score	460
Exons	1..327, 1..288, 3..329		
Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120380	Strand	-
Start	4179	End	5434

Name	OJ000350_35.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1	End	537
GI	none	Score	252
Exons	1..306, 334..537		

Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120380	Strand	-
Start	4179	End	5434
Name	OJ000350_35.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	250	End	591
GI	none	Score	326
Exons	250..288, 256..591, 272..358, 279..518, 340..543		

Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120380	Strand	-
Start	4179	End	5434
Name	OJ000350_35.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	385	End	648
GI	none	Score	251
Exons	385..543, 393..584, 394..648		

Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120380	Strand	-
Start	4179	End	5434
Name	OJ000350_35.0419.C9.o2.gs	Method	GENSCAN
Start	4179	End	5434
GI	none	Score	.68
Exons	4179..4209, 4780..4909, 5012..5268, 5349..5434		

Seq. No.	57525	Seq. ID	OJ000350_35.0419.C9
Gene No.	120381	Strand	
Start	5347	End	6306
Name	OJ000350_35.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	5347	End	6306
GI	none	Score	106
Exons	5347..5436, 5348..5437, 5348..5446, 5356..5442, 5963..6070, 6006..6071, 6007..6075, 6177..6293, 6177..6302, 6178..6306		

Seq. No.	57526	Seq. ID	OJ000350_35.0419.C10
Gene No.	120382	Strand	-
Start	6186	End	6695
Name	OJ000350_35.0419.C10.o1.gp	Method	AAT/GAP
Start	6186	End	6695
GI	2310359	Score	161
Exons	6186..6292, 6665..6695		
GI Descrip.	5777612/emb|AJ245900.1|OSA245900 2.0e-31 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120383	Strand	+
Start	106	End	877
Name	OJ000350_35.0419.C11.o1.gs	Method	GENSCAN
Start	106	End	877
GI	none	Score	.7
Exons	106..201, 384..470, 814..877		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11

Gene No.	120384	Strand	+
Start	4819	End	8469
Name	OJ000350_35.0419.C11.o3.gs	Method	GENSCAN
Start	4819	End	8361
GI	none	Score	.63
Exons	4819..5345, 6213..7996, 8057..8361		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120384	Strand	+
Start	4819	End	8469
Name	OJ000350_35.0419.C11.o3.np	Method	AAT/NAP
Start	7978	End	8469
GI	7248394	Score	758
Exons	7978..8469		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120385	Strand	-
Start	1870	End	3813
Name	OJ000350_35.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1704	End	2991
GI	none	Score	86
Exons	1704..1781, 1811..1882, 1821..1883, 1871..2038, 1879..2004, 2255..2398, 2266..2397, 2270..2437, 2602..2757, 2603..2758, 2609..2761, 2880..2981, 2886..2969, 2893..2991, 2894..2983		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120385	Strand	-
Start	1870	End	3813
Name	OJ000350_35.0419.C11.o1.np	Method	AAT/NAP
Start	1820	End	3813
GI	4185143	Score	478
Exons	1820..2005, 2267..2398, 2610..2761, 2886..2972, 3597..3813		
GI Descrip.	(AC005724) putative signal recognition particle receptor beta subunit [Arabidopsis thaliana]		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120385	Strand	-
Start	1870	End	3813
Name	OJ000350_35.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1823	End	2969
GI	none	Score	90
Exons	1823..1879, 1882..2004, 1883..2044, 2266..2436, 2267..2398, 2595..2684, 2609..2761, 2636..2755, 2786..2821, 2886..2969		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120385	Strand	-
Start	1870	End	3813
Name	OJ000350_35.0419.C11.o2.gs	Method	GENSCAN
Start	1870	End	2933
GI	none	Score	.74
Exons	1870..2005, 2267..2398, 2610..2758, 2886..2933		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120385	Strand	-
Start	1870	End	3813
Name	OJ000350_35.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	2645	End	2991
GI	none	Score	93
Exons	2645..2779, 2648..2761, 2895..2969, 2923..2991		

Seq. No.	57527	Seq. ID	OJ000350_35.0419.C11
Gene No.	120386	Strand	
Start	6568	End	6936
Name	OJ000350_35.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	6568	End	6936
GI	none	Score	156
Exons	6568..6693, 6585..6692, 6718..6936, 6718..6840		

Seq. No.	57528	Seq. ID	OJ000350_35.0419.C12
Gene No.	120387	Strand	-
Start	599	End	954
Name	OJ000350_35.0419.C12.o1.gs	Method	GENSCAN
Start	599	End	954
GI	none	Score	.82
Exons	599..689, 908..954		

Seq. No.	57529	Seq. ID	OJ000350_35.0419.C13
Gene No.	120388	Strand	-
Start	601	End	1419
Name	OJ000350_35.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	588	End	1333
GI	none	Score	47
Exons	588..671, 595..672, 602..673, 756..875, 757..876, 765..875, 1219..1305, 1307..1333		

Seq. No.	57529	Seq. ID	OJ000350_35.0419.C13
Gene No.	120388	Strand	-
Start	601	End	1419
Name	OJ000350_35.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	595	End	1333
GI	none	Score	99
Exons	595..672, 595..672, 596..673, 749..853, 757..855, 757..849, 765..878, 1219..1299, 1219..1305, 1229..1306, 1307..1333		

Seq. No.	57529	Seq. ID	OJ000350_35.0419.C13
Gene No.	120388	Strand	-
Start	601	End	1419
Name	OJ000350_35.0419.C13.o1.gs	Method	GENSCAN
Start	601	End	1327
GI	none	Score	.97
Exons	601..671, 758..853, 1224..1327		

Seq. No.	57529	Seq. ID	OJ000350_35.0419.C13
Gene No.	120388	Strand	-
Start	601	End	1419
Name	OJ000350_35.0419.C13.o1.np	Method	AAT/NAP
Start	604	End	1419
GI	5669871	Score	324
Exons	604..671, 758..853, 1224..1419		

GI Descrip. (AF135014) dihydrolipoamide S-acetyltransferase [Zea mays]

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120389	Strand	+
Start	4678	End	7661
Name	OJ000350_35.0419.C14.o2.gs	Method	GENSCAN
Start	4678	End	7661
GI	none	Score	.59
Exons	4678..4716, 5410..5509, 5532..5655, 5987..6160, 6396..6809, 6901..6978, 7400..7661		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120389	Strand	+
Start	4678	End	7661
Name	OJ000350_35.0419.C14.o2.np	Method	AAT/NAP
Start	5450	End	6316
GI	5902448	Score	432
Exons	5450..6316		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120390	Strand	-
Start	1	End	3586
Name	OJ000350_35.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	919
GI	6539553	Score	1109
Exons	1..919		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120390	Strand	-
Start	1	End	3586
Name	OJ000350_35.0419.C14.o1.gs	Method	GENSCAN
Start	140	End	3586
GI	none	Score	.6
Exons	140..403, 1401..1793, 2435..2500, 2704..2825, 3529..3586		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120391	Strand	-
Start	8853	End	9597
Name	OJ000350_35.0419.C14.o3.gs	Method	GENSCAN
Start	8853	End	9597
GI	none	Score	.61
Exons	8853..9021, 9254..9597		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120392	Strand	-
Start	11099	End	12565
Name	OJ000350_35.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	12	End	358
GI	5752663	Score	66
Exons	12..152, 176..358, 192..281		
GI Descrip.	-		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120392	Strand	-
Start	11099	End	12565
Name	OJ000350_35.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	21	End	277
GI	none	Score	75
Exons	21..158, 176..277, 189..275		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120392	Strand	-
Start	11099	End	12565
Name	OJ000350_35.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	290	End	919
GI	none	Score	162
Exons	290..532, 290..520, 547..627, 561..614, 634..804, 648..803, 649..804, 788..844, 851..919, 879..914		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120392	Strand	-
Start	11099	End	12565
Name	OJ000350_35.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	10994	End	11715
GI	none	Score	50
Exons	10994..11038, 10995..11030, 11054..11083, 11055..11114, 11102..11335, 11123..11311, 11361..11558, 11362..11556, 11556..11603, 11626..11715		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120392	Strand	-
Start	11099	End	12565
Name	OJ000350_35.0419.C14.o4.gs	Method	GENSCAN
Start	11099	End	12165
GI	none	Score	.86
Exons	11099..11395, 11760..11885, 12059..12165		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120392	Strand	-
Start	11099	End	12565
Name	OJ000350_35.0419.C14.o3.np	Method	AAT/NAP
Start	11120	End	12565
GI	6069646	Score	246
Exons	11120..11779, 12541..12565		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	57530	Seq. ID	OJ000350_35.0419.C14
Gene No.	120392	Strand	-
Start	11099	End	12565
Name	OJ000350_35.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	11138	End	11534
GI	none	Score	55
Exons	11138..11353, 11159..11302, 11391..11534		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15

Gene No.	120393	Strand	+
Start	5004	End	11268
Name	OJ000350_35.0419.C15.o2.np	Method	AAT/NAP
Start	5004	End	11268
GI	6498436	Score	370
Exons	5004..5022, 9358..9684, 11150..11268		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15
Gene No.	120394	Strand	+
Start	12017	End	14981
Name	OJ000350_35.0419.C15.o2.gs	Method	GENSCAN
Start	12017	End	13785
GI	none	Score	.66
Exons	12017..12166, 12491..12651, 12888..13076, 13140..13425, 13567..13785		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15
Gene No.	120394	Strand	+
Start	12017	End	14981
Name	OJ000350_35.0419.C15.o3.np	Method	AAT/NAP
Start	12017	End	14981
GI	4680183	Score	1235
Exons	12017..12651, 12691..13778, 14916..14981		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15
Gene No.	120395	Strand	-
Start	1	End	7721
Name	OJ000350_35.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	7720
GI	7487880	Score	407
Exons	1..25, 124..166, 1183..1295, 3913..3998, 7307..7591, 7646..7720		
GI Descrip.	hypothetical protein T9J22.14 - Arabidopsis thaliana gi|2739372|gb|AAC14496.1| (AC002505) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15
Gene No.	120395	Strand	-
Start	1	End	7721
Name	OJ000350_35.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	112	End	7721
GI	none	Score	81
Exons	112..174, 112..174, 1155..1304, 1169..1294, 3767..3847, 3909..3998, 3910..3999, 3912..3998, 3913..3999, 7258..7491, 7307..7492, 7550..7606, 7640..7720, 7653..7721		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15
Gene No.	120395	Strand	-
Start	1	End	7721
Name	OJ000350_35.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	1790	End	2295
GI	none	Score	94
Exons	1790..1891, 1957..2076, 2089..2184, 2179..2295		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15
Gene No.	120395	Strand	-

Start	1	End	7721
Name	OJ000350_35.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	2415	End	2820
GI	none	Score	90
Exons	2415..2570, 2440..2592, 2586..2684, 2686..2820, 2687..2803		

Seq. No.	57531	Seq. ID	OJ000350_35.0419.C15
Gene No.	120396	Strand	
Start	13333	End	13734
Name	OJ000350_35.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	13333	End	13734
GI	none	Score	223
Exons	13333..13734		

Seq. No.	57532	Seq. ID	OJ000350_35.0419.C16
Gene No.	120397	Strand	+
Start	41	End	1267
Name	OJ000350_35.0419.C16.o1.np	Method	AAT/NAP
Start	41	End	1267
GI	5922620	Score	292
Exons	41..94, 132..271, 1063..1267		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57532	Seq. ID	OJ000350_35.0419.C16
Gene No.	120398	Strand	-
Start	739	End	1274
Name	OJ000350_35.0419.C16.o1.gs	Method	GENSCAN
Start	739	End	1274
GI	none	Score	.92
Exons	739..851, 1153..1274		

Seq. No.	57533	Seq. ID	OJ000350_35.0419.C17
Gene No.	120399	Strand	-
Start	1	End	524
Name	OJ000350_35.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	524
GI	6539570	Score	105
Exons	1..159, 318..524		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	57533	Seq. ID	OJ000350_35.0419.C17
Gene No.	120400	Strand	-
Start	651	End	736
Name	OJ000350_35.0419.C17.o2.np	Method	AAT/NAP
Start	651	End	736
GI	6630699	Score	85
Exons	651..736		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	57533	Seq. ID	OJ000350_35.0419.C17
Gene No.	120401	Strand	-

Start	1177	End	1703
Name	OJ000350_35.0419.C17.o1.gs	Method	GENSCAN
Start	1177	End	1703
GI	none	Score	.78
Exons	1177..1479, 1572..1703		

Seq. No.	57534	Seq. ID	OJ000350_35.0419.C18
Gene No.	120402	Strand	-
Start	3328	End	3528
Name	OJ000350_35.0419.C18.o2.gs	Method	GENSCAN
Start	3328	End	3528
GI	none	Score	.55
Exons	3328..3528		

Seq. No.	57535	Seq. ID	OJ000350_35.0419.C19
Gene No.	120403	Strand	+
Start	1	End	1913
Name	OJ000350_35.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1913
GI	7340723	Score	472
Exons	1..146, 1227..1913		
GI Descrip.	(AL162507) putative protein [Arabidopsis thaliana]		

Seq. No.	57535	Seq. ID	OJ000350_35.0419.C19
Gene No.	120403	Strand	+
Start	1	End	1913
Name	OJ000350_35.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1257	End	1565
GI	none	Score	183
Exons	1257..1547, 1263..1565, 1445..1564		

Seq. No.	57535	Seq. ID	OJ000350_35.0419.C19
Gene No.	120403	Strand	+
Start	1	End	1913
Name	OJ000350_35.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1308	End	1699
GI	none	Score	461
Exons	1308..1697, 1310..1699		

Seq. No.	57535	Seq. ID	OJ000350_35.0419.C19
Gene No.	120403	Strand	+
Start	1	End	1913
Name	OJ000350_35.0419.C19.o2.np	Method	AAT/NAP
Start	1707	End	1913
GI	7487443	Score	85
Exons	1707..1913		
GI Descrip.	hypothetical protein T26D22.13 - Arabidopsis thaliana gi|3047097|gb|AAC13609.1| (AF058826) contains similarity to transposases [Arabidopsis thaliana]		

Seq. No.	57536	Seq. ID	OJ000350_35.0419.C24
Gene No.	120404	Strand	-
Start	1	End	438
Name	OJ000350_35.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	438
GI	2496731	Score	285
Exons	1..95, 181..438		

GI Descrip.	HYPOTHETICAL 30.2 KD PROTEIN Y4OV gi|2182566|gb|AAB91808.1| (AE000089) Y4oV [Rhizobium sp. NGR234]		
Seq. No.	57536	Seq. ID	OJ000350_35.0419.C24
Gene No.	120404	Strand	-
Start	1	End	438
Name	OJ000350_35.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	1	End	255
GI	none	Score	124
Exons	1..132, 3..95, 163..243, 163..255, 179..253		
Seq. No.	57536	Seq. ID	OJ000350_35.0419.C24
Gene No.	120404	Strand	-
Start	1	End	438
Name	OJ000350_35.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	21	End	393
GI	none	Score	59
Exons	21..95, 21..95, 22..132, 23..97, 163..393, 179..388		
Seq. No.	57536	Seq. ID	OJ000350_35.0419.C24
Gene No.	120404	Strand	-
Start	1	End	438
Name	OJ000350_35.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	68	End	430
GI	none	Score	50
Exons	68..94, 69..95, 70..132, 163..408, 163..429, 179..430		
Seq. No.	57536	Seq. ID	OJ000350_35.0419.C24
Gene No.	120404	Strand	-
Start	1	End	438
Name	OJ000350_35.0419.C24.o1.gs	Method	GENSCAN
Start	181	End	428
GI	none	Score	.55
Exons	181..428		
Seq. No.	57537	Seq. ID	OJ000350_35.0419.C25
Gene No.	120405	Strand	+
Start	37	End	823
Name	OJ000350_35.0419.C25.o1.gp	Method	AAT/GAP
Start	37	End	740
GI	537_1.R1084	Score	1298
Exons	37..740		
GI Descrip.	'433214/dbj|BAA02971| 0.0e+00 (D13817) lactate dehydrogenase [Oryza sativa]'		
Seq. No.	57537	Seq. ID	OJ000350_35.0419.C25
Gene No.	120405	Strand	+
Start	37	End	823
Name	OJ000350_35.0419.C25.o1.gs	Method	GENSCAN
Start	48	End	733
GI	none	Score	.74
Exons	48..80, 129..733		
Seq. No.	57537	Seq. ID	OJ000350_35.0419.C25
Gene No.	120405	Strand	+
Start	37	End	823
Name	OJ000350_35.0419.C25.o1.np	Method	AAT/NAP

Start	120	End	823
GI	7431149	Score	978
Exons	120..823		
GI Descrip.	L-lactate dehydrogenase (EC 1.1.1.27) - rice gi|987693|dbj|BAA04088.1| (D16685) lactate dehydrogenase [Oryza sativa]		

Seq. No.	57537	Seq. ID	OJ000350_35.0419.C25
Gene No.	120405	Strand	+
Start	37	End	823
Name	OJ000350_35.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	140	End	736
GI	none	Score	107
Exons	140..232, 209..736, 223..735		

Seq. No.	57537	Seq. ID	OJ000350_35.0419.C25
Gene No.	120405	Strand	+
Start	37	End	823
Name	OJ000350_35.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	206	End	733
GI	none	Score	686
Exons	206..733, 229..729		

Seq. No.	57537	Seq. ID	OJ000350_35.0419.C25
Gene No.	120405	Strand	+
Start	37	End	823
Name	OJ000350_35.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	206	End	735
GI	none	Score	663
Exons	206..733, 229..528, 577..729, 580..735, 614..733, 648..734		

Seq. No.	57538	Seq. ID	OJ000350_35.0419.C26
Gene No.	120406	Strand	+
Start	1076	End	1257
Name	OJ000350_35.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	1073	End	1257
GI	none	Score	180
Exons	1073..1219, 1073..1222, 1201..1257, 1204..1257		

Seq. No.	57538	Seq. ID	OJ000350_35.0419.C26
Gene No.	120406	Strand	+
Start	1076	End	1257
Name	OJ000350_35.0419.C26.o1.gs	Method	GENSCAN
Start	1076	End	1230
GI	none	Score	.84
Exons	1076..1230		

Seq. No.	57539	Seq. ID	OJ000350_35.0419.C27
Gene No.	120407	Strand	-
Start	860	End	2405
Name	OJ000350_35.0419.C27.o1.gs	Method	GENSCAN
Start	860	End	1548
GI	none	Score	.81
Exons	860..1548		

Seq. No.	57539	Seq. ID	OJ000350_35.0419.C27
Gene No.	120407	Strand	-

Start	860	End	2405
Name	OJ000350_35.0419.C27.o1.np	Method	AAT/NAP
Start	885	End	2405
GI	7488254	Score	266
Exons	885..1565, 2351..2405		
GI Descrip.	protein kinase homolog F24G24.190 - Arabidopsis thaliana gi|4538968|emb|CAB39792.1| (AL049488) putative protein kinase [Arabidopsis thaliana] gi|7267736|emb|CAB78162.1| (AL161517) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	57539	Seq. ID	OJ000350_35.0419.C27
Gene No.	120407	Strand	-
Start	860	End	2405
Name	OJ000350_35.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	941	End	1537
GI	none	Score	106
Exons	941..1066, 1160..1261, 1349..1396, 1385..1537		

Seq. No.	57539	Seq. ID	OJ000350_35.0419.C27
Gene No.	120407	Strand	-
Start	860	End	2405
Name	OJ000350_35.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	941	End	1534
GI	none	Score	68
Exons	941..1057, 1160..1264, 1161..1262, 1349..1534		

Seq. No.	57539	Seq. ID	OJ000350_35.0419.C27
Gene No.	120407	Strand	-
Start	860	End	2405
Name	OJ000350_35.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	1160	End	1534
GI	none	Score	57
Exons	1160..1261, 1161..1304, 1349..1396, 1392..1436, 1406..1534		

Seq. No.	57539	Seq. ID	OJ000350_35.0419.C27
Gene No.	120407	Strand	-
Start	860	End	2405
Name	OJ000350_35.0419.C27.o1.gp	Method	AAT/GAP
Start	1263	End	1539
GI	702713	Score	503
Exons	1263..1539		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120408	Strand	+
Start	1	End	3665
Name	OJ000350_35.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	3405
GI	6539553	Score	774
Exons	1..69, 917..985, 1624..2199, 3365..3405		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120408	Strand	+
Start	1	End	3665

Name	OJ000350_35.0419.C29.o1.gs	Method	GENSCAN
Start	840	End	2856
GI	none	Score	.56
Exons	840..974, 1610..1889, 2075..2196, 2713..2856		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120408	Strand	+
Start	1	End	3665
Name	OJ000350_35.0419.C29.o2.np	Method	AAT/NAP
Start	2240	End	3665
GI	5852084	Score	77
Exons	2240..2263, 3582..3665		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120409	Strand	-
Start	778	End	1355
Name	OJ000350_35.0419.C29.o1.gp	Method	AAT/GAP
Start	778	End	1355
GI	4879016	Score	829
Exons	778..1355		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120410	Strand	-
Start	3618	End	4214
Name	OJ000350_35.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	1631	End	1906
GI	none	Score	263
Exons	1631..1906, 1710..1889, 1711..1905		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120410	Strand	-
Start	3618	End	4214
Name	OJ000350_35.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	1796	End	2199
GI	none	Score	87
Exons	1796..1870, 1804..1866, 1902..2192, 1902..2198, 1903..2199		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120410	Strand	-
Start	3618	End	4214
Name	OJ000350_35.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	1802	End	2118
GI	none	Score	88
Exons	1802..1906, 1828..1905, 1933..2118, 1938..2069		

Seq. No.	57540	Seq. ID	OJ000350_35.0419.C29
Gene No.	120410	Strand	-
Start	3618	End	4214
Name	OJ000350_35.0419.C29.o2.gs	Method	GENSCAN
Start	3618	End	4214
GI	none	Score	.98
Exons	3618..3690, 4141..4214		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120411	Strand	+
Start	911	End	2972
Name	OJ000350_35.0419.C30.o1.np	Method	AAT/NAP
Start	911	End	2972
GI	6721561	Score	103
Exons	911..1001, 2955..2972		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120412	Strand	+
Start	4069	End	7676
Name	OJ000350_35.0419.C30.o2.np	Method	AAT/NAP
Start	4069	End	7676
GI	6691191	Score	1401
Exons	4069..5394, 7630..7676		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120413	Strand	+
Start	11914	End	13068
Name	OJ000350_35.0419.C30.o4.gs	Method	GENSCAN
Start	11914	End	13068
GI	none	Score	.41
Exons	11914..11979, 12031..12280, 12344..13068		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o3.ts	Method	TBLASTX:Soybean
Start	3254	End	11660
GI	none	Score	64
Exons	3254..3313, 11250..11528, 11556..11660		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o4.tw	Method	TBLASTX:Wheat
Start	3263	End	11660
GI	none	Score	83
Exons	3263..3370, 3380..3550, 11313..11534, 11544..11660		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o3.tw	Method	TBLASTX:Wheat
Start	4057	End	4303
GI	none	Score	234
Exons	4057..4263, 4068..4193, 4262..4303		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024

Name	OJ000350_35.0419.C30.o2.ts	Method	TBLASTX:Soybean
Start	4060	End	4325
GI	none	Score	221
Exons	4060..4263, 4081..4158, 4198..4260, 4202..4270, 4262..4324, 4263..4325, 4263..4322		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	4399	End	4830
GI	none	Score	552
Exons	4399..4830, 4420..4788		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	4555	End	4803
GI	none	Score	59
Exons	4555..4611, 4581..4709, 4597..4803, 4742..4777		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	4564	End	5077
GI	none	Score	198
Exons	4564..4893, 4916..5077		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o4.ts	Method	TBLASTX:Soybean
Start	4815	End	5050
GI	none	Score	74
Exons	4815..4892, 4816..4893, 4898..5050, 4915..4980		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o2.tw	Method	TBLASTX:Wheat
Start	4832	End	5127
GI	none	Score	40
Exons	4832..4879, 4834..4893, 4834..4875, 4881..5057, 4892..5077, 4894..5001, 4899..5063, 4901..5074, 5079..5126, 5080..5127		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o6.tw	Method	TBLASTX:Wheat
Start	5140	End	5340
GI	none	Score	182
Exons	5140..5340, 5142..5267, 5143..5325		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-

Start	7481	End	13024
Name	OJ000350_35.0419.C30.o5.ts	Method	TBLASTX:Soybean
Start	5146	End	5394
GI	none	Score	185
Exons	5146..5280, 5146..5262, 5160..5279, 5189..5284, 5293..5394		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o3.gs	Method	GENSCAN
Start	7481	End	11168
GI	none	Score	.66
Exons	7481..7673, 7807..7939, 7974..8162, 8733..8943, 9603..10048, 10065..10461, 10507..10577, 10617..10853, 10946..11168		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o3.np	Method	AAT/NAP
Start	9726	End	13024
GI	4325357	Score	397
Exons	9726..10434, 11227..11706, 12977..13024		
GI Descrip.	(AF128395) contains similarity to Arabidopsis thaliana retrotransposon Athila hypothetical protein 1 (GB:X81801) [Arabidopsis thaliana]		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o5.tw	Method	TBLASTX:Wheat
Start	10069	End	10440
GI	none	Score	70
Exons	10069..10254, 10070..10183, 10288..10440		

Seq. No.	57541	Seq. ID	OJ000350_35.0419.C30
Gene No.	120414	Strand	-
Start	7481	End	13024
Name	OJ000350_35.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	11205	End	11513
GI	none	Score	206
Exons	11205..11513		

Seq. No.	57542	Seq. ID	OJ000350_35.0419.C31
Gene No.	120415	Strand	+
Start	112	End	2900
Name	OJ000350_35.0419.C31.o1.gs	Method	GENSCAN
Start	112	End	2900
GI	none	Score	.61
Exons	112..270, 347..413, 1673..1761, 2762..2900		

Seq. No.	57542	Seq. ID	OJ000350_35.0419.C31
Gene No.	120416	Strand	+
Start	5622	End	7867
Name	OJ000350_35.0419.C31.o2.np	Method	AAT/NAP
Start	5622	End	7867
GI	6063554	Score	425
Exons	5622..5909, 6027..6245, 7026..7053, 7693..7867		

GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	57542	Seq. ID	OJ000350_35.0419.C31
Gene No.	120417	Strand	-
Start	4498	End	6811
Name	OJ000350_35.0419.C31.o1.np	Method	AAT/NAP
Start	4343	End	5075
GI	6630685	Score	460
Exons	4343..4487, 4629..5075		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		
Seq. No.	57542	Seq. ID	OJ000350_35.0419.C31
Gene No.	120417	Strand	-
Start	4498	End	6811
Name	OJ000350_35.0419.C31.o2.gs	Method	GENSCAN
Start	4498	End	6811
GI	none	Score	.51
Exons	4498..4959, 5976..6159, 6195..6380, 6660..6811		
Seq. No.	57542	Seq. ID	OJ000350_35.0419.C31
Gene No.	120418	Strand	-
Start	6997	End	7614
Name	OJ000350_35.0419.C31.o2.tm	Method	TBLASTX:Maize
Start	4345	End	4482
GI	none	Score	119
Exons	4345..4482, 4345..4482		
Seq. No.	57542	Seq. ID	OJ000350_35.0419.C31
Gene No.	120418	Strand	-
Start	6997	End	7614
Name	OJ000350_35.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	4831	End	5075
GI	none	Score	156
Exons	4831..5034, 4841..5041, 5008..5073, 5013..5075		
Seq. No.	57542	Seq. ID	OJ000350_35.0419.C31
Gene No.	120418	Strand	-
Start	6997	End	7614
Name	OJ000350_35.0419.C31.o3.gs	Method	GENSCAN
Start	6997	End	7614
GI	none	Score	.41
Exons	6997..7134, 7594..7614		
Seq. No.	57543	Seq. ID	OJ000350_35.0419.C32
Gene No.	120419	Strand	+
Start	1	End	1715
Name	OJ000350_35.0419.C32.o2.np	Method	AAT/NAP
Start	1	End	1715
GI	5852172	Score	117
Exons	1..167, 1555..1715		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		
Seq. No.	57543	Seq. ID	OJ000350_35.0419.C32
Gene No.	120420	Strand	-

Start	1	End	1386
Name	OJ000350_35.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	1386
GI	7489803	Score	1181
Exons	1..62, 162..270, 327..1386		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	57543	Seq. ID	OJ000350_35.0419.C32
Gene No.	120421	Strand	-
Start	1536	End	1824
Name	OJ000350_35.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	325	End	849
GI	none	Score	248
Exons	325..645, 327..842, 327..848, 334..849		

Seq. No.	57543	Seq. ID	OJ000350_35.0419.C32
Gene No.	120421	Strand	-
Start	1536	End	1824
Name	OJ000350_35.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	417	End	989
GI	none	Score	73
Exons	417..701, 420..602, 460..603, 640..705, 695..727, 697..729, 705..728, 741..989, 760..987		

Seq. No.	57543	Seq. ID	OJ000350_35.0419.C32
Gene No.	120421	Strand	-
Start	1536	End	1824
Name	OJ000350_35.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	849	End	1137
GI	none	Score	157
Exons	849..1025, 856..1023, 858..1031, 1029..1097, 1030..1098, 1105..1137		

Seq. No.	57543	Seq. ID	OJ000350_35.0419.C32
Gene No.	120421	Strand	-
Start	1536	End	1824
Name	OJ000350_35.0419.C32.o1.gp	Method	AAT/GAP
Start	1536	End	1824
GI	427610	Score	404
Exons	1536..1587, 1612..1824		
GI Descrip.	5852172/emb|CAB55410.1| 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	57544	Seq. ID	OJ000350_35.0419.C36
Gene No.	120422	Strand	+
Start	113	End	234
Name	OJ000350_35.0419.C36.o1.gs	Method	GENSCAN
Start	113	End	234
GI	none	Score	.85
Exons	113..234		

Seq. No.	57545	Seq. ID	OJ000350_35.0419.C37
Gene No.	120423	Strand	+
Start	614	End	668
Name	OJ000350_35.0419.C37.o1.gs	Method	GENSCAN

Start	614	End	668
GI	none	Score	.51
Exons	614..668		

Seq. No.	57546	Seq. ID	OJ000350_35.0419.C38
Gene No.	120424	Strand	+
Start	1	End	978
Name	OJ000350_35.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	978
GI	7228442	Score	1186
Exons	1..704, 959..978		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	57547	Seq. ID	OJ000350_35.0419.C40
Gene No.	120425	Strand	+
Start	89	End	604
Name	OJ000350_35.0419.C40.o1.gs	Method	GENSCAN
Start	89	End	604
GI	none	Score	.42
Exons	89..140, 576..604		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o1.gp	Method	AAT/GAP
Start	1013	End	1305
GI	2280784	Score	578
Exons	1013..1305		
GI Descrip.	951166 2.0e-30 (U31451) invertase [Zea mays]		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o1.np	Method	AAT/NAP
Start	1076	End	1785
GI	7435471	Score	861
Exons	1076..1785		
GI Descrip.	beta-fructofuranosidase (EC 3.2.1.26) - maize (fragment) gi|951166|gb|AAA74584.1| (U31451) invertase [Zea mays]		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o1.gs	Method	GENSCAN
Start	1088	End	1781
GI	none	Score	.68
Exons	1088..1591, 1599..1781		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o3.tw	Method	TBLASTX:Wheat
Start	1089	End	1226
GI	none	Score	161
Exons	1089..1142, 1094..1225, 1095..1226		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	1091	End	1781
GI	none	Score	304
Exons	1091..1369, 1092..1304, 1304..1450, 1359..1451, 1420..1482, 1455..1604, 1460..1603, 1641..1781, 1645..1779		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	1145	End	1781
GI	none	Score	108
Exons	1145..1342, 1146..1283, 1343..1450, 1368..1496, 1469..1573, 1674..1781, 1708..1773		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	1145	End	1781
GI	none	Score	191
Exons	1145..1534, 1146..1496, 1469..1606, 1644..1781, 1699..1773		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	1286	End	1604
GI	none	Score	36
Exons	1286..1318, 1286..1420, 1400..1489, 1404..1487, 1457..1603, 1473..1604		

Seq. No.	57548	Seq. ID	OJ000350_35.0419.C41
Gene No.	120426	Strand	-
Start	1088	End	1785
Name	OJ000350_35.0419.C41.o2.tw	Method	TBLASTX:Wheat
Start	1641	End	1781
GI	none	Score	159
Exons	1641..1781, 1642..1776		

Seq. No.	57549	Seq. ID	OJ000350_35.0419.C43
Gene No.	120427	Strand	+
Start	2888	End	5189
Name	OJ000350_35.0419.C43.o3.np	Method	AAT/NAP
Start	2879	End	5186
GI	3860253	Score	304
Exons	2879..2940, 3012..3095, 3544..3799, 4609..4640, 4960..5186		
GI Descrip.	(AC005824) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57549	Seq. ID	OJ000350_35.0419.C43
Gene No.	120427	Strand	+
Start	2888	End	5189
Name	OJ000350_35.0419.C43.o2.gs	Method	GENSCAN

Start	2888	End	5189
GI	none	Score	.85
Exons	2888..2940, 3012..3095, 3168..3248, 4571..4640, 4960..5022, 5112..5189		

Seq. No.	57549	Seq. ID	OJ000350_35.0419.C43
Gene No.	120428	Strand	-
Start	104	End	1681
Name	OJ000350_35.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	2	End	1263
GI	none	Score	80
Exons	2..259, 2..259, 1141..1263		

Seq. No.	57549	Seq. ID	OJ000350_35.0419.C43
Gene No.	120428	Strand	-
Start	104	End	1681
Name	OJ000350_35.0419.C43.o1.gs	Method	GENSCAN
Start	104	End	1681
GI	none	Score	.85
Exons	104..1681		

Seq. No.	57549	Seq. ID	OJ000350_35.0419.C43
Gene No.	120428	Strand	-
Start	104	End	1681
Name	OJ000350_35.0419.C43.o3.tm	Method	TBLASTX:Maize
Start	1298	End	1534
GI	none	Score	71
Exons	1298..1534, 1299..1526		

Seq. No.	57549	Seq. ID	OJ000350_35.0419.C43
Gene No.	120429	Strand	
Start	2896	End	3683
Name	OJ000350_35.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	2896	End	3683
GI	none	Score	72
Exons	2896..2943, 2897..2941, 2997..3095, 3010..3096, 3167..3256, 3168..3284, 3169..3249, 3506..3583, 3532..3585, 3541..3591, 3543..3590, 3575..3682, 3575..3682, 3585..3683		

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o1.gs	Method	GENSCAN
Start	54	End	6675
GI	none	Score	.71
Exons	54..359, 404..2502, 2604..2927, 3195..3323, 3406..3528, 3648..3803, 4104..4229, 4306..4440, 4761..4822, 4917..5028, 5233..5427, 5535..5651, 5877..6046, 6132..6675		

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o1.np	Method	AAT/NAP
Start	236	End	5743
GI	6907098	Score	2535
Exons	236..450, 621..1371, 1417..1687, 1730..1837, 1931..2502, 2604..2927, 3195..3323, 3738..3793, 4079..4229, 4306..4440,		

4695..4822, 4917..5028, 5113..5427, 5535..5743
GI Descrip. (AP001129) EST AU031036(E60617) corresponds to a region of the predicted gene.; Similar to Human mRNA for KIAA0310 gene. (AB002308) [Oryza sativa]

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	2124	End	2709
GI	none	Score	73
Exons	2124..2177, 2125..2175, 2127..2177, 2164..2502, 2172..2501, 2173..2502, 2175..2504, 2601..2708, 2601..2708, 2602..2709		

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o2.ts	Method	TBLASTX:Soybean
Start	2571	End	2885
GI	none	Score	78
Exons	2571..2693, 2697..2885, 2698..2811, 2729..2869		

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	3405	End	4148
GI	none	Score	171
Exons	3405..3524, 3406..3528, 3418..3528, 3629..3745, 3645..3788, 3658..3789, 4101..4148		

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o4.tm	Method	TBLASTX:Maize
Start	4108	End	4781
GI	none	Score	215
Exons	4108..4227, 4109..4228, 4110..4250, 4303..4440, 4303..4440, 4364..4441, 4692..4781, 4692..4781		

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o2.tm	Method	TBLASTX:Maize
Start	4782	End	5600
GI	none	Score	52
Exons	4782..4826, 4915..5028, 4917..5027, 4918..5028, 5110..5238, 5112..5240, 5112..5267, 5113..5268, 5271..5354, 5275..5355, 5276..5365, 5296..5427, 5313..5426, 5365..5427, 5531..5599, 5532..5600		

Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o6.tm	Method	TBLASTX:Maize
Start	5600	End	5883
GI	none	Score	64

Exons	5600..5647, 5601..5651, 5614..5652, 5748..5807, 5749..5883, 5749..5883		
Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o3.ts	Method	TBLASTX:Soybean
Start	5748	End	6429
GI	none	Score	99
Exons	5748..5807, 5749..5853, 5749..5883, 5955..6047, 5959..6054, 5978..6049, 6123..6170, 6130..6171, 6217..6342, 6397..6429		
Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o3.tm	Method	TBLASTX:Maize
Start	5903	End	6384
GI	none	Score	206
Exons	5903..6049, 5904..6047, 5904..6056, 5906..6049, 6129..6263, 6130..6270, 6154..6327, 6243..6320, 6321..6383, 6322..6384		
Seq. No.	57550	Seq. ID	OJ000350_35.0419.C44
Gene No.	120430	Strand	+
Start	54	End	6683
Name	OJ000350_35.0419.C44.o5.tm	Method	TBLASTX:Maize
Start	6404	End	6683
GI	none	Score	191
Exons	6404..6658, 6416..6676, 6489..6677, 6489..6683		
Seq. No.	57551	Seq. ID	OJ000350_35.0419.C45
Gene No.	120431	Strand	+
Start	1	End	3045
Name	OJ000350_35.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	3041
GI	5669871	Score	697
Exons	1..111, 846..919, 1012..1100, 1378..1418, 2012..2069, 2210..2284, 2417..2509, 2642..2890, 2969..3041		
GI Descrip.	(AF135014) dihydrolipoamide S-acetyltransferase [Zea mays]		
Seq. No.	57551	Seq. ID	OJ000350_35.0419.C45
Gene No.	120431	Strand	+
Start	1	End	3045
Name	OJ000350_35.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	16	End	3045
GI	none	Score	84
Exons	16..117, 844..912, 1014..1127, 2208..2279, 2209..2283, 2209..2289, 2210..2284, 2395..2511, 2417..2512, 2639..2695, 2640..2684, 2642..2695, 2644..2892, 2670..2891, 2768..2893, 2794..2892, 2942..3040, 2951..3040, 2968..3045, 2974..3042		
Seq. No.	57551	Seq. ID	OJ000350_35.0419.C45
Gene No.	120431	Strand	+
Start	1	End	3045
Name	OJ000350_35.0419.C45.o1.gs	Method	GENSCAN
Start	846	End	2840
GI	none	Score	.67
Exons	846..919, 1003..1100, 1385..1418, 2210..2284, 2417..2509,		

2642..2840

Seq. No.	57551	Seq. ID	OJ000350_35.0419.C45
Gene No.	120431	Strand	+
Start	1	End	3045
Name	OJ000350_35.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	2208	End	3040
GI	none	Score	130
Exons	2208..2273, 2209..2289, 2210..2284, 2416..2511, 2417..2512, 2642..2695, 2780..2893, 2794..2901, 2951..3040, 2962..3039		

Seq. No.	57552	Seq. ID	OJ000350_35.0419.C46
Gene No.	120432	Strand	-
Start	258	End	346
Name	OJ000350_35.0419.C46.o1.np	Method	AAT/NAP
Start	258	End	346
GI	6358764	Score	92
Exons	258..346		
GI Descrip.	(AC011665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57553	Seq. ID	OJ000350_35.0419.C47
Gene No.	120433	Strand	-
Start	634	End	1415
Name	OJ000350_35.0419.C47.o2.ts	Method	TBLASTX:Soybean
Start	625	End	843
GI	none	Score	99
Exons	625..843, 704..838		

Seq. No.	57553	Seq. ID	OJ000350_35.0419.C47
Gene No.	120433	Strand	-
Start	634	End	1415
Name	OJ000350_35.0419.C47.o1.tc	Method	TBLASTX:Cress
Start	628	End	1164
GI	none	Score	97
Exons	628..1164, 634..843, 701..1162		

Seq. No.	57553	Seq. ID	OJ000350_35.0419.C47
Gene No.	120433	Strand	-
Start	634	End	1415
Name	OJ000350_35.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	631	End	1059
GI	none	Score	41
Exons	631..1059, 632..661, 701..838, 813..905, 832..957		

Seq. No.	57553	Seq. ID	OJ000350_35.0419.C47
Gene No.	120433	Strand	-
Start	634	End	1415
Name	OJ000350_35.0419.C47.o1.np	Method	AAT/NAP
Start	634	End	1415
GI	6358764	Score	941
Exons	634..1415		
GI Descrip.	(AC011665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57553	Seq. ID	OJ000350_35.0419.C47
Gene No.	120433	Strand	-
Start	634	End	1415
Name	OJ000350_35.0419.C47.o1.ts	Method	TBLASTX:Soybean

Start	859	End	1392
GI	none	Score	153
Exons	859..1392, 902..1378		

Seq. No.	57553	Seq. ID	OJ000350_35.0419.C47
Gene No.	120433	Strand	-
Start	634	End	1415
Name	OJ000350_35.0419.C47.o2.tm	Method	TBLASTX:Maize
Start	1060	End	1348
GI	none	Score	147
Exons	1060..1347, 1063..1338, 1085..1348		

Seq. No.	57554	Seq. ID	OJ000350_35.0419.C48
Gene No.	120434	Strand	+
Start	1622	End	1810
Name	OJ000350_35.0419.C48.o2.np	Method	AAT/NAP
Start	1622	End	1810
GI	6721543	Score	82
Exons	1622..1810		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	57554	Seq. ID	OJ000350_35.0419.C48
Gene No.	120435	Strand	-
Start	1	End	941
Name	OJ000350_35.0419.C48.o1.np	Method	AAT/NAP
Start	1	End	923
GI	6358764	Score	632
Exons	1..923		
GI Descrip.	(AC011665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57554	Seq. ID	OJ000350_35.0419.C48
Gene No.	120435	Strand	-
Start	1	End	941
Name	OJ000350_35.0419.C48.o1.gs	Method	GENSCAN
Start	19	End	941
GI	none	Score	.97
Exons	19..941		

Seq. No.	57554	Seq. ID	OJ000350_35.0419.C48
Gene No.	120436	Strand	-
Start	1645	End	1714
Name	OJ000350_35.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	15	End	797
GI	none	Score	73
Exons	15..425, 39..260, 522..788, 627..797		

Seq. No.	57554	Seq. ID	OJ000350_35.0419.C48
Gene No.	120436	Strand	-
Start	1645	End	1714
Name	OJ000350_35.0419.C48.o1.tc	Method	TBLASTX:Cress
Start	33	End	797
GI	none	Score	82
Exons	33..641, 108..251, 126..290, 276..533, 283..417, 534..797, 594..797		

Seq. No.	57554	Seq. ID	OJ000350_35.0419.C48
Gene No.	120436	Strand	-

Start	1645	End	1714
Name	OJ000350_35.0419.C48.o2.gs	Method	GENSCAN
Start	1645	End	1714
GI	none	Score	.67
Exons	1645..1714		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120437	Strand	+
Start	5414	End	5624
Name	OJ000350_35.0419.C49.o3.gp	Method	AAT/GAP
Start	5414	End	5624
GI	1631463	Score	344
Exons	5414..5624		
GI Descrip.	4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120438	Strand	+
Start	6252	End	7070
Name	OJ000350_35.0419.C49.o3.np	Method	AAT/NAP
Start	6252	End	7070
GI	5042448	Score	1130
Exons	6252..7070		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120439	Strand	+
Start	7325	End	11885
Name	OJ000350_35.0419.C49.o4.np	Method	AAT/NAP
Start	7325	End	11885
GI	4680179	Score	7819
Exons	7325..11885		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120440	Strand	-
Start	25	End	6358
Name	OJ000350_35.0419.C49.o1.gp	Method	AAT/GAP
Start	25	End	478
GI	LIB3431-045-P1-N1-A10	Score	836
Exons	25..478		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120440	Strand	-
Start	25	End	6358
Name	OJ000350_35.0419.C49.o1.gs	Method	GENSCAN
Start	276	End	3831
GI	none	Score	.65
Exons	276..463, 614..816, 821..868, 932..1063, 1154..1185, 1377..1559, 1652..1910, 1987..2285, 2375..2499, 3438..3831		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120440	Strand	-

Start	25	End	6358
Name	OJ000350_35.0419.C49.o1.np	Method	AAT/NAP
Start	279	End	4095
GI	7228442	Score	278
Exons	279..463, 3918..4095		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120440	Strand	-
Start	25	End	6358
Name	OJ000350_35.0419.C49.o2.np	Method	AAT/NAP
Start	582	End	6358
GI	5441880	Score	1687
Exons	582..816, 932..1063, 1310..1407, 1652..1910, 1987..2285, 6329..6358		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120440	Strand	-
Start	25	End	6358
Name	OJ000350_35.0419.C49.o2.gp	Method	AAT/GAP
Start	1660	End	2159
GI	LIB3475-007-P1-K1-G8	Score	805
Exons	1660..1910, 1987..2159		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120441	Strand	
Start	7592	End	8128
Name	OJ000350_35.0419.C49.o7.tw	Method	TBLASTX:Wheat
Start	7592	End	7951
GI	none	Score	308
Exons	7592..7951, 7618..7692, 7717..7950		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120441	Strand	
Start	7592	End	8128
Name	OJ000350_35.0419.C49.o6.tm	Method	TBLASTX:Maize
Start	7832	End	8128
GI	none	Score	210
Exons	7832..8128, 7832..8116, 7849..8019		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120442	Strand	
Start	8471	End	8893
Name	OJ000350_35.0419.C49.o8.tw	Method	TBLASTX:Wheat
Start	8471	End	8893
GI	none	Score	153
Exons	8471..8665, 8521..8619, 8705..8893, 8731..8886		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49

Gene No.	120443	Strand	
Start	9050	End	9919
Name	OJ000350_35.0419.C49.o4.tw	Method	TBLASTX:Wheat
Start	9050	End	9532
GI	none	Score	550
Exons	9050..9532, 9154..9489, 9179..9523		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120443	Strand	
Start	9050	End	9919
Name	OJ000350_35.0419.C49.o5.tm	Method	TBLASTX:Maize
Start	9062	End	9351
GI	none	Score	322
Exons	9062..9349, 9160..9351		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120443	Strand	
Start	9050	End	9919
Name	OJ000350_35.0419.C49.o4.ts	Method	TBLASTX:Soybean
Start	9086	End	9400
GI	none	Score	183
Exons	9086..9400		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120443	Strand	
Start	9050	End	9919
Name	OJ000350_35.0419.C49.o3.tm	Method	TBLASTX:Maize
Start	9419	End	9919
GI	none	Score	161
Exons	9419..9598, 9584..9919, 9670..9801, 9671..9910		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120443	Strand	
Start	9050	End	9919
Name	OJ000350_35.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	9473	End	9868
GI	none	Score	57
Exons	9473..9505, 9473..9517, 9509..9868, 9509..9589, 9604..9867, 9677..9868		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120443	Strand	
Start	9050	End	9919
Name	OJ000350_35.0419.C49.o5.tw	Method	TBLASTX:Wheat
Start	9581	End	9883
GI	none	Score	402
Exons	9581..9883, 9582..9683, 9601..9882		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120444	Strand	
Start	9884	End	10393
Name	OJ000350_35.0419.C49.o2.tw	Method	TBLASTX:Wheat
Start	9884	End	10393
GI	none	Score	628
Exons	9884..10393, 9916..10227, 9962..10309		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49

Gene No.	120444	Strand	
Start	9884	End	10393
Name	OJ000350_35.0419.C49.o3.ts	Method	TBLASTX:Soybean
Start	9890	End	10135
GI	none	Score	204
Exons	9890..10135		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120444	Strand	
Start	9884	End	10393
Name	OJ000350_35.0419.C49.o2.tm	Method	TBLASTX:Maize
Start	9956	End	10321
GI	none	Score	488
Exons	9956..10309, 9958..10224, 10010..10321		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o3.tw	Method	TBLASTX:Wheat
Start	10397	End	10876
GI	none	Score	590
Exons	10397..10876, 10430..10843, 10468..10875		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o1.tc	Method	TBLASTX:Cress
Start	10583	End	10900
GI	none	Score	89
Exons	10583..10756, 10757..10900, 10759..10899		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o2.ts	Method	TBLASTX:Soybean
Start	10664	End	10924
GI	none	Score	299
Exons	10664..10924, 10669..10923		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o4.tm	Method	TBLASTX:Maize
Start	10723	End	11014
GI	none	Score	389
Exons	10723..11010, 10724..11014		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	10883	End	11507
GI	none	Score	190
Exons	10883..11059, 10885..11034, 11067..11507, 11085..11213, 11087..11506		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49

Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	11070	End	11648
GI	none	Score	178
Exons	11070..11219, 11079..11213, 11087..11215, 11222..11647, 11223..11648		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o6.tw	Method	TBLASTX:Wheat
Start	11507	End	11840
GI	none	Score	363
Exons	11507..11560, 11508..11840, 11514..11615, 11600..11716, 11658..11819		

Seq. No.	57555	Seq. ID	OJ000350_35.0419.C49
Gene No.	120445	Strand	
Start	10397	End	11861
Name	OJ000350_35.0419.C49.o7.tm	Method	TBLASTX:Maize
Start	11649	End	11861
GI	none	Score	193
Exons	11649..11861		

Seq. No.	57556	Seq. ID	OJ000350_35.0419.C51
Gene No.	120446	Strand	-
Start	131	End	675
Name	OJ000350_35.0419.C51.o1.gs	Method	GENSCAN
Start	131	End	675
GI	none	Score	.51
Exons	131..136, 370..675		

Seq. No.	57556	Seq. ID	OJ000350_35.0419.C51
Gene No.	120447	Strand	-
Start	966	End	1098
Name	OJ000350_35.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	269	End	472
GI	none	Score	82
Exons	269..331, 271..348, 274..342, 278..349, 343..423, 344..472		

Seq. No.	57556	Seq. ID	OJ000350_35.0419.C51
Gene No.	120447	Strand	-
Start	966	End	1098
Name	OJ000350_35.0419.C51.o2.gs	Method	GENSCAN
Start	966	End	1098
GI	none	Score	.84
Exons	966..1010, 1048..1098		

Seq. No.	57557	Seq. ID	OJ000350_35.0419.C52
Gene No.	120448	Strand	-
Start	3177	End	3591
Name	OJ000350_35.0419.C52.o2.gs	Method	GENSCAN
Start	3177	End	3591
GI	none	Score	.61
Exons	3177..3300, 3575..3591		

Seq. No.	57558	Seq. ID	OJ000350_35.0419.C53
Gene No.	120449	Strand	-
Start	399	End	2281
Name	OJ000350_35.0419.C53.o1.gs	Method	GENSCAN
Start	399	End	2281
GI	none	Score	.5
Exons	399..490, 1927..2037, 2093..2281		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120450	Strand	+
Start	915	End	3910
Name	OJ000350_35.0419.C54.o1.gs	Method	GENSCAN
Start	915	End	3910
GI	none	Score	.66
Exons	915..1838, 1925..2690, 2765..2952, 3028..3217, 3285..3389, 3462..3910		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120450	Strand	+
Start	915	End	3910
Name	OJ000350_35.0419.C54.o1.np	Method	AAT/NAP
Start	954	End	3907
GI	6691716	Score	2393
Exons	954..1824, 2022..2214, 2296..2416, 2528..2690, 2765..2952, 3028..3127, 3273..3389, 3462..3907		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487
Name	OJ000350_35.0419.C54.o3.tw	Method	TBLASTX:Wheat
Start	1074	End	1364
GI	none	Score	212
Exons	1074..1364, 1256..1324		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487
Name	OJ000350_35.0419.C54.o2.gs	Method	GENSCAN
Start	4226	End	5365
GI	none	Score	.85
Exons	4226..5365		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487
Name	OJ000350_35.0419.C54.o2.np	Method	AAT/NAP
Start	4229	End	5487
GI	5902445	Score	2166
Exons	4229..5487		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487

Name	OJ000350_35.0419.C54.o2.tw	Method	TBLASTX:Wheat
Start	4238	End	4852
GI	none	Score	81
Exons	4238..4375, 4361..4519, 4574..4852, 4590..4691, 4743..4832		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487
Name	OJ000350_35.0419.C54.o2.tm	Method	TBLASTX:Maize
Start	4277	End	4510
GI	none	Score	101
Exons	4277..4378, 4278..4379, 4358..4510, 4359..4418		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487
Name	OJ000350_35.0419.C54.o3.tm	Method	TBLASTX:Maize
Start	4622	End	4895
GI	none	Score	57
Exons	4622..4708, 4718..4801, 4731..4805, 4788..4895, 4796..4894		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487
Name	OJ000350_35.0419.C54.o1.tw	Method	TBLASTX:Wheat
Start	4967	End	5354
GI	none	Score	110
Exons	4967..5158, 4967..5353, 5043..5354		

Seq. No.	57559	Seq. ID	OJ000350_35.0419.C54
Gene No.	120451	Strand	-
Start	4226	End	5487
Name	OJ000350_35.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	4997	End	5360
GI	none	Score	67
Exons	4997..5044, 4998..5045, 5031..5339, 5036..5359, 5049..5360		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o1.np	Method	AAT/NAP
Start	1	End	2851
GI	5922631	Score	2969
Exons	1..549, 1156..2079, 2206..2357, 2400..2851		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o3.tw	Method	TBLASTX:Wheat
Start	2	End	320

GI	none	Score	138
Exons	2..319, 18..320		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o2.tm	Method	TBLASTX:Maize
Start	14	End	422
GI	none	Score	83
Exons	14..145, 15..146, 167..421, 168..422		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o1.gs	Method	GENSCAN
Start	20	End	2680
GI	none	Score	.41
Exons	20..793, 893..1067, 1164..2680		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o1.ts	Method	TBLASTX:Soybean
Start	116	End	490
GI	none	Score	46
Exons	116..490, 123..293, 330..473		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o2.tw	Method	TBLASTX:Wheat
Start	365	End	784
GI	none	Score	236
Exons	365..784, 366..782, 569..784		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	653	End	1009
GI	none	Score	208
Exons	653..1009, 663..968		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o2.ts	Method	TBLASTX:Soybean
Start	734	End	1099
GI	none	Score	138
Exons	734..868, 875..1099		

Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o5.tw	Method	TBLASTX:Wheat
Start	784	End	1018
GI	none	Score	105

Exons	784..948, 785..997, 785..1018, 786..998		
Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o1.tw	Method	TBLASTX:Wheat
Start	1019	End	1816
GI	none	Score	116
Exons	1019..1312, 1023..1184, 1359..1595, 1361..1591, 1640..1816		
Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o3.tm	Method	TBLASTX:Maize
Start	1361	End	1508
GI	none	Score	114
Exons	1361..1507, 1362..1508		
Seq. No.	57560	Seq. ID	OJ000350_35.0419.C55
Gene No.	120452	Strand	-
Start	1	End	2851
Name	OJ000350_35.0419.C55.o4.tw	Method	TBLASTX:Wheat
Start	2393	End	2795
GI	none	Score	119
Exons	2393..2794, 2526..2795		
Seq. No.	57561	Seq. ID	OJ000350_35.0419.C56
Gene No.	120453	Strand	+
Start	1260	End	2756
Name	OJ000350_35.0419.C56.o2.gs	Method	GENSCAN
Start	1260	End	2755
GI	none	Score	.45
Exons	1260..1348, 1472..1671, 2053..2089, 2283..2423, 2624..2755		
Seq. No.	57561	Seq. ID	OJ000350_35.0419.C56
Gene No.	120453	Strand	+
Start	1260	End	2756
Name	OJ000350_35.0419.C56.o2.gp	Method	AAT/GAP
Start	2653	End	2756
GI	369_1.R1084	Score	143
Exons	2653..2756		
GI Descrip.	'3123270/sp|P49398|RS4_ORYSA 1.0e-133 40S RIBOSOMAL PROTEIN S4 (SCAR PROTEIN SS620) >gi_2463335_emb_CAA75242_ (Y15009) ribosomal protein S4 [Oryza sativa]'		
Seq. No.	57561	Seq. ID	OJ000350_35.0419.C56
Gene No.	120454	Strand	-
Start	1	End	901
Name	OJ000350_35.0419.C56.o1.np	Method	AAT/NAP
Start	1	End	704
GI	5902444	Score	1037
Exons	1..704		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	57561	Seq. ID	OJ000350_35.0419.C56
Gene No.	120454	Strand	-
Start	1	End	901

Name	OJ000350_35.0419.C56.o1.gs	Method	GENSCAN
Start	152	End	704
GI	none	Score	1
Exons	152..360, 365..704		

Seq. No.	57561	Seq. ID	OJ000350_35.0419.C56
Gene No.	120454	Strand	-
Start	1	End	901
Name	OJ000350_35.0419.C56.o1.gp	Method	AAT/GAP
Start	440	End	901
GI	uC-osflcyp177g01a1	Score	251
Exons	440..476, 753..901		
GI Descrip.	'4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120455	Strand	+
Start	1	End	668
Name	OJ000350_35.0419.C57.o1.gp	Method	AAT/GAP
Start	1	End	668
GI	369_3.R1084	Score	1289
Exons	1..668		
GI Descrip.	'3914899/sp|O22424|RS4_MAIZE 1.0e-127 40S RIBOSOMAL PROTEIN S4 >gi_2331301 (AF013487) ribosomal protein S4 type I [Zea mays]'		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120455	Strand	+
Start	1	End	668
Name	OJ000350_35.0419.C57.o1.np	Method	AAT/NAP
Start	1	End	432
GI	3914899	Score	739
Exons	1..432		
GI Descrip.	40S RIBOSOMAL PROTEIN S4 gi|2331301 (AF013487) ribosomal protein S4 type I [Zea mays]		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120456	Strand	+
Start	4166	End	5856
Name	OJ000350_35.0419.C57.o2.gs	Method	GENSCAN
Start	4166	End	5641
GI	none	Score	.56
Exons	4166..4660, 4705..4935, 5255..5641		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120456	Strand	+
Start	4166	End	5856
Name	OJ000350_35.0419.C57.o2.np	Method	AAT/NAP
Start	4172	End	5635
GI	5803254	Score	733
Exons	4172..4935, 5021..5173, 5255..5635		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120456	Strand	+
Start	4166	End	5856

Name	OJ000350_35.0419.C57.o2.gp	Method	AAT/GAP
Start	4326	End	4660
GI	none	Score	577
Exons	4326..4660		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120456	Strand	+
Start	4166	End	5856
Name	OJ000350_35.0419.C57.o3.gp	Method	AAT/GAP
Start	5043	End	5856
GI	2561_1.R1084	Score	1375
Exons	5043..5173, 5255..5856		
GI Descrip.	'5803254/dbj|BAA83564.1| 3.0e-20 (AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]'		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120457	Strand	+
Start	7883	End	9525
Name	OJ000350_35.0419.C57.o3.gs	Method	GENSCAN
Start	7883	End	9525
GI	none	Score	.57
Exons	7883..8034, 8240..8366, 8736..8847, 9068..9525		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120458	Strand	-
Start	52	End	3255
Name	OJ000350_35.0419.C57.o1.gs	Method	GENSCAN
Start	52	End	3255
GI	none	Score	.58
Exons	52..465, 853..981, 1057..1181, 1765..1834, 2285..2380, 3028..3191, 3249..3255		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o1.tc	Method	TBLASTX:Cress
Start	1	End	402
GI	none	Score	270
Exons	1..165, 3..353, 96..263, 191..343, 220..402		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o1.tm	Method	TBLASTX:Maize
Start	1	End	272
GI	none	Score	261
Exons	1..165, 1..267, 3..272, 96..266, 220..267		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o1.ts	Method	TBLASTX:Soybean
Start	1	End	402
GI	none	Score	277
Exons	1..165, 3..353, 96..341, 220..402		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o1.tw	Method	TBLASTX:Wheat
Start	1	End	285
GI	none	Score	286
Exons	1..165, 1..81, 3..284, 96..284, 124..285, 220..285		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o2.tw	Method	TBLASTX:Wheat
Start	286	End	499
GI	none	Score	199
Exons	286..405, 288..353, 290..427, 293..427, 393..434, 439..492, 459..494, 461..499		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o2.tm	Method	TBLASTX:Maize
Start	4556	End	5287
GI	none	Score	66
Exons	4556..4645, 4561..4650, 4648..4791, 4825..4926, 4825..4911, 4869..4937, 4996..5073, 5024..5095, 5024..5077, 5085..5162, 5087..5161, 5093..5176, 5098..5178, 5110..5178, 5264..5287		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o3.np	Method	AAT/NAP
Start	7383	End	8017
GI	7440340	Score	218
Exons	7383..7552, 7610..7740, 7856..8017		
GI Descrip.	ribosomal protein S14, cytosolic - Arabidopsis thaliana gi|4886269|emb|CAB43407.1| (AL050300) putative ribosomal protein S14 [Arabidopsis thaliana]		

Seq. No.	57562	Seq. ID	OJ000350_35.0419.C57
Gene No.	120459	Strand	-
Start	7383	End	8020
Name	OJ000350_35.0419.C57.o4.np	Method	AAT/NAP
Start	7383	End	8020
GI	131773	Score	196
Exons	7383..7552, 7610..7740, 7856..8020		
GI Descrip.	40S RIBOSOMAL PROTEIN S14 (CLONE MCH2) gi|82724|pir||B30097 ribosomal protein S14 (clone MCH2) - maize		

Seq. No.	57563	Seq. ID	OJ000350_35.0419.C58
Gene No.	120460	Strand	-
Start	10	End	148
Name	OJ000350_35.0419.C58.o1.gs	Method	GENSCAN
Start	10	End	148
GI	none	Score	.84
Exons	10..148		

Seq. No.	57564	Seq. ID	OJ000350_35.0419.C60
Gene No.	120461	Strand	+
Start	53	End	631
Name	OJ000350_35.0419.C60.o1.gs	Method	GENSCAN
Start	53	End	612
GI	none	Score	.88
Exons	53..167, 364..459, 541..612		

Seq. No.	57564	Seq. ID	OJ000350_35.0419.C60
Gene No.	120461	Strand	+
Start	53	End	631
Name	OJ000350_35.0419.C60.o1.tm	Method	TBLASTX:Maize
Start	123	End	631
GI	none	Score	66
Exons	123..167, 363..458, 364..462, 539..631, 547..624	365..466, 392..466, 535..624,	

Seq. No.	57565	Seq. ID	OJ000350_35.0419.C61
Gene No.	120462	Strand	+
Start	1509	End	1712
Name	OJ000350_35.0419.C61.o1.gs	Method	GENSCAN
Start	1509	End	1712
GI	none	Score	.99
Exons	1509..1712		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120463	Strand	+
Start	1	End	2681
Name	OJ000350_35.0419.C62.o1.np	Method	AAT/NAP
Start	1	End	1334
GI	7460049	Score	281
Exons	1..63, 193..271, 358..452, 999..1103, 1206..1334		
GI Descrip.	hypothetical protein F7L13.10 - Arabidopsis thaliana gi|4539403|emb|CAB40036.1| (AL049524) putative protein [Arabidopsis thaliana] gi|7267740|emb|CAB78166.1| (AL161517) putative protein [Arabidopsis thaliana]		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120463	Strand	+
Start	1	End	2681
Name	OJ000350_35.0419.C62.o1.gs	Method	GENSCAN
Start	193	End	2681
GI	none	Score	.8
Exons	193..271, 358..452, 1730..1837, 2238..2324, 2571..2681		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120464	Strand	+
Start	3193	End	5256
Name	OJ000350_35.0419.C62.o2.np	Method	AAT/NAP
Start	3193	End	5256
GI	433214	Score	699
Exons	3193..3350, 4804..5256		
GI Descrip.	(D13817) lactate dehydrogenase [Oryza sativa]		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120465	Strand	+
Start	6459	End	7176

Name	OJ000350_35.0419.C62.o3.np	Method	AAT/NAP
Start	6459	End	7176
GI	6907085	Score	349
Exons	6459..6515, 6600..7176		
GI Descrip.	(AP001129) ESTs AU082316(E3368),D41461(S3973) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120466	Strand	-
Start	4809	End	5499
Name	OJ000350_35.0419.C62.o3.tm	Method	TBLASTX:Maize
Start	399	End	2646
GI	none	Score	87
Exons	399..452, 978..1109, 998..1102, 999..1103, 1177..1287, 1178..1288, 1196..1288, 1203..1334, 1533..1604, 1540..1608, 1541..1606, 1543..1608, 1602..1631, 1607..1630, 1721..1843, 1729..1842, 2235..2324, 2237..2326, 2237..2323, 2568..2636, 2569..2646, 2573..2638		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120466	Strand	-
Start	4809	End	5499
Name	OJ000350_35.0419.C62.o1.tm	Method	TBLASTX:Maize
Start	4806	End	5130
GI	none	Score	435
Exons	4806..4988, 4808..5089, 4809..5093, 5095..5130		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120466	Strand	-
Start	4809	End	5499
Name	OJ000350_35.0419.C62.o1.tc	Method	TBLASTX:Cress
Start	4808	End	5235
GI	none	Score	333
Exons	4808..5089, 4809..5093, 5116..5235		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120466	Strand	-
Start	4809	End	5499
Name	OJ000350_35.0419.C62.o1.ts	Method	TBLASTX:Soybean
Start	4808	End	5235
GI	none	Score	337
Exons	4808..4891, 4809..5093, 4952..5092, 5110..5235		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120466	Strand	-
Start	4809	End	5499
Name	OJ000350_35.0419.C62.o1.gp	Method	AAT/GAP
Start	4809	End	5499
GI	537_1.R1084	Score	1354
Exons	4809..5499		
GI Descrip.	'433214/dbj|BAA02971| 0.0e+00 (D13817) lactate dehydrogenase [Oryza sativa]'		

Seq. No.	57566	Seq. ID	OJ000350_35.0419.C62
Gene No.	120467	Strand	
Start	6768	End	7058

Name	OJ000350_35.0419.C62.o2.tm	Method	TBLASTX:Maize
Start	6768	End	7058
GI	none	Score	349
Exons	6768..7058, 6800..7048		

Seq. No.	57567	Seq. ID	OJ000350_35.0419.C63
Gene No.	120468	Strand	+
Start	1	End	340
Name	OJ000350_35.0419.C63.o1.np	Method	AAT/NAP
Start	1	End	340
GI	6907085	Score	292
Exons	1..340		
GI Descrip.	(AP001129) ESTs AU082316(E3368),D41461(S3973) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57567	Seq. ID	OJ000350_35.0419.C63
Gene No.	120469	Strand	-
Start	177	End	351
Name	OJ000350_35.0419.C63.o1.tm	Method	TBLASTX:Maize
Start	63	End	351
GI	none	Score	244
Exons	63..233, 63..236, 64..234, 233..340, 239..340, 270..350, 277..351		

Seq. No.	57567	Seq. ID	OJ000350_35.0419.C63
Gene No.	120469	Strand	-
Start	177	End	351
Name	OJ000350_35.0419.C63.o1.ts	Method	TBLASTX:Soybean
Start	87	End	340
GI	none	Score	165
Exons	87..233, 90..233, 236..340, 242..340		

Seq. No.	57567	Seq. ID	OJ000350_35.0419.C63
Gene No.	120469	Strand	-
Start	177	End	351
Name	OJ000350_35.0419.C63.o1.gp	Method	AAT/GAP
Start	177	End	342
GI	none	Score	276
Exons	177..342		

Seq. No.	57568	Seq. ID	OJ000330_35.0419.C2
Gene No.	120470	Strand	+
Start	2485	End	4520
Name	OJ000330_35.0419.C2.o1.gs	Method	GENSCAN
Start	2485	End	4520
GI	none	Score	.8
Exons	2485..3319, 4183..4520		

Seq. No.	57568	Seq. ID	OJ000330_35.0419.C2
Gene No.	120470	Strand	+
Start	2485	End	4520
Name	OJ000330_35.0419.C2.o1.np	Method	AAT/NAP
Start	2629	End	4505
GI	6692131	Score	525
Exons	2629..3312, 3698..3820, 4183..4505		
GI Descrip.	(AC007654) T19E23.10 [Arabidopsis thaliana]		

Seq. No.	57568	Seq. ID	OJ000330_35.0419.C2
Gene No.	120471	Strand	-
Start	8501	End	11944
Name	OJ000330_35.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	2662	End	2937
GI	none	Score	114
Exons	2662..2742, 2799..2876, 2800..2937		

Seq. No.	57568	Seq. ID	OJ000330_35.0419.C2
Gene No.	120471	Strand	-
Start	8501	End	11944
Name	OJ000330_35.0419.C2.o2.gs	Method	GENSCAN
Start	8501	End	11944
GI	none	Score	.54
Exons	8501..8579, 9719..9814, 10207..10386, 11835..11944		

Seq. No.	57569	Seq. ID	OJ000330_35.0419.C3
Gene No.	120472	Strand	+
Start	929	End	1269
Name	OJ000330_35.0419.C3.o1.gp	Method	AAT/GAP
Start	929	End	1269
GI	none	Score	616
Exons	929..1269		

Seq. No.	57570	Seq. ID	OJ000330_35.0419.C5
Gene No.	120473	Strand	+
Start	350	End	891
Name	OJ000330_35.0419.C5.o1.gs	Method	GENSCAN
Start	350	End	891
GI	none	Score	.44
Exons	350..396, 772..891		

Seq. No.	57571	Seq. ID	OJ000330_35.0419.C9
Gene No.	120474	Strand	-
Start	772	End	1099
Name	OJ000330_35.0419.C9.o1.gs	Method	GENSCAN
Start	772	End	1099
GI	none	Score	.46
Exons	772..974, 1042..1099		

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120475	Strand	+
Start	1118	End	3973
Name	OJ000330_35.0419.C14.o1.gs	Method	GENSCAN
Start	1118	End	3973
GI	none	Score	.51
Exons	1118..1145, 1224..1343, 1937..2084, 2121..2137, 2248..2473, 3036..3155, 3751..3973		

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120476	Strand	+
Start	4934	End	12914
Name	OJ000330_35.0419.C14.o1.gp	Method	AAT/GAP
Start	4669	End	8799
GI	2516_1.R1084	Score	3973
Exons	4669..5173, 6339..6454, 6588..6676, 6760..6873, 6958..7045,		

7129..7214, 7306..7408, 7501..7598, 7709..8138, 8237..8799
GI Descrip. '4531444/gb|AAD22129.1|AC006224_11 1.0e-160 (AC006224) putative protein kinase [Arabidopsis thaliana]'

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120476	Strand	+
Start	4934	End	12914
Name	OJ000330_35.0419.C14.o2.gs	Method	GENSCAN
Start	4934	End	12914
GI	none	Score	.86

Exons 4934..5018, 5024..5173, 6339..6454, 6588..6676, 6958..7045, 7129..7214, 7306..7408, 7501..7598, 7709..8138, 8195..8344, 9625..9925, 10156..10293, 10644..10848, 10937..11050, 11146..11233, 11352..11437, 11543..11645, 11793..11890, 12054..12483, 12603..12914

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120476	Strand	+
Start	4934	End	12914
Name	OJ000330_35.0419.C14.o1.np.	Method	AAT/NAP
Start	6296	End	8554
GI	6686400	Score	1378

Exons 6296..6454, 6588..6676, 6760..6873, 6958..7045, 7129..7214, 7306..7408, 7501..7598, 7709..8160, 8202..8554
GI Descrip. (AC007234) F1E22.18 [Arabidopsis thaliana]

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120476	Strand	+
Start	4934	End	12914
Name	OJ000330_35.0419.C14.o2.gp	Method	AAT/GAP
Start	9836	End	11018
GI	29451_1.R1084	Score	1380

Exons 9836..10293, 10644..10848, 10937..11018
GI Descrip. '4531444/gb|AAD22129.1|AC006224_11 6.0e-12 (AC006224) putative protein kinase [Arabidopsis thaliana]'

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120476	Strand	+
Start	4934	End	12914
Name	OJ000330_35.0419.C14.o2.np	Method	AAT/NAP
Start	9861	End	12911
GI	4531444	Score	1323

Exons 9861..9919, 10663..10848, 10937..11050, 11146..11233, 11352..11437, 11543..11645, 11793..11890, 12054..12483, 12603..12911
GI Descrip. (AC006224) putative amine oxidase [Arabidopsis thaliana]

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120477	Strand	-
Start	12614	End	13016
Name	OJ000330_35.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	4937	End	12931
GI	none	Score	68

Exons 4937..4981, 6337..6474, 6428..6475, 6585..6680, 6587..6679, 6609..6680, 6759..6866, 6760..6873, 6761..6871, 6939..7046, 6949..7044, 6962..7051, 7117..7215, 7127..7216, 7128..7214, 7304..7408, 7306..7410, 7335..7409, 7357..7410, 7497..7598,

7498..7599, 7498..7599, 7698..8138, 7706..8137, 8240..8491,
8242..8490, 8248..8556, 8509..8574, 9962..9985, 9989..10093,
9990..10073, 10061..10093, 10642..10848, 10643..10849,
10643..10852, 10937..11050, 10938..11048, 11143..11232,
11144..11233, 11148..11234, 11349..11438, 11349..11432,
11350..11442, 11359..11433, 11541..11645, 11548..11646,
11548..11646, 11790..11930, 11790..11891, 12051..12482,
12052..12483, 12117..12482, 12590..12667, 12602..12913,
12603..12914, 12603..12914, 12812..12931

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120477	Strand	-
Start	12614	End	13016
Name	OJ000330_35.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	5030	End	11384
GI	none	Score	85

Exons 5030..5173, 5136..5174, 5140..5178, 6336..6416, 6336..6455,
6337..6417, 6337..6456, 6585..6680, 6586..6678, 6587..6715,
6587..6679, 6759..6872, 6759..6875, 6927..7046, 6949..7044,
6962..7051, 7127..7162, 7127..7162, 10642..10695, 10643..10849,
10661..10840, 10747..10869, 10936..11043, 10938..11048,
10943..11050, 11143..11232, 11144..11233, 11349..11384

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120477	Strand	-
Start	12614	End	13016
Name	OJ000330_35.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	6364	End	12836
GI	none	Score	70

Exons 6364..6456, 6571..6678, 6585..6680, 6587..6682, 6587..6679,
6600..6698, 6758..6868, 6759..6872, 6760..6873, 6949..7044,
6965..7045, 7117..7215, 7128..7211, 7303..7410, 7304..7408,
7324..7410, 7497..7598, 7498..7599, 7499..7597, 7500..7598,
7698..8141, 7731..8129, 7733..8140, 8236..8478, 8237..8500,
10670..10852, 10683..10865, 10733..10849, 10747..10869,
10936..11040, 10937..11050, 10938..11048, 11349..11438,
11541..11645, 11790..11891, 11790..11891, 12052..12486,
12120..12395, 12124..12462, 12606..12836, 12608..12802

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120477	Strand	-
Start	12614	End	13016
Name	OJ000330_35.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	6367	End	12399
GI	none	Score	148

Exons 6367..6465, 6585..6680, 6587..6679, 6758..6817, 6760..6837,
6761..6784, 6833..6877, 6835..6864, 6837..6866, 6957..6992,
6962..7009, 7007..7048, 7173..7205, 7304..7408, 7304..7408,
7498..7599, 7515..7598, 7706..7870, 7706..8050, 7707..8051,
10733..10849, 10747..10848, 10937..11014, 10938..11015,
11010..11042, 11012..11035, 11144..11194, 11195..11239,
11358..11378, 11541..11645, 11790..11891, 11807..11881,
12051..12248, 12052..12399, 12120..12395

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120477	Strand	-
Start	12614	End	13016

Name	OJ000330_35.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	7327	End	12129
GI	none	Score	157
Exons	7327..7410, 7328..7408, 7497..7598, 7498..7599, 7498..7599, 7499..7603, 7698..7787, 7707..7787, 11562..11645, 11563..11646, 11565..11645, 11790..11891, 11790..11891, 12052..12129		

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120477	Strand	-
Start	12614	End	13016
Name	OJ000330_35.0419.C14.o2.tc	Method	TBLASTX:Cress
Start	8236	End	12872
GI	none	Score	289
Exons	8236..8487, 8237..8488, 12400..12486, 12578..12853, 12606..12872		

Seq. No.	57572	Seq. ID	OJ000330_35.0419.C14
Gene No.	120477	Strand	-
Start	12614	End	13016
Name	OJ000330_35.0419.C14.o3.gp	Method	AAT/GAP
Start	12614	End	13016
GI	19075_1.R1084	Score	755
Exons	12614..13016		
GI Descrip.	'4531444/gb|AAD22129.1|AC006224_11 2.0e-09 (AC006224) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	57573	Seq. ID	OJ000330_35.0419.C15
Gene No.	120478	Strand	-
Start	62	End	282
Name	OJ000330_35.0419.C15.o1.gs	Method	GENSCAN
Start	62	End	282
GI	none	Score	.55
Exons	62..282		

Seq. No.	57574	Seq. ID	OJ000330_35.0419.C17
Gene No.	120479	Strand	+
Start	251	End	1163
Name	OJ000330_35.0419.C17.o2.tw	Method	TBLASTX:Wheat
Start	103	End	307
GI	none	Score	74
Exons	103..306, 152..307		

Seq. No.	57574	Seq. ID	OJ000330_35.0419.C17
Gene No.	120479	Strand	+
Start	251	End	1163
Name	OJ000330_35.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	104	End	468
GI	none	Score	68
Exons	104..256, 115..468		

Seq. No.	57574	Seq. ID	OJ000330_35.0419.C17
Gene No.	120479	Strand	+
Start	251	End	1163
Name	OJ000330_35.0419.C17.o1.gs	Method	GENSCAN
Start	251	End	1061
GI	none	Score	.44
Exons	251..336, 434..504, 589..665, 852..1061		

Seq. No.	57574	Seq. ID	OJ000330_35.0419.C17
Gene No.	120479	Strand	+
Start	251	End	1163
Name	OJ000330_35.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	672	End	1112
GI	none	Score	142
Exons	672..809, 894..1112		

Seq. No.	57574	Seq. ID	OJ000330_35.0419.C17
Gene No.	120479	Strand	+
Start	251	End	1163
Name	OJ000330_35.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	684	End	1076
GI	none	Score	107
Exons	684..1076, 763..897, 964..1074		

Seq. No.	57574	Seq. ID	OJ000330_35.0419.C17
Gene No.	120479	Strand	+
Start	251	End	1163
Name	OJ000330_35.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	759	End	1163
GI	none	Score	150
Exons	759..884, 897..1163		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	5161	End	5841
GI	none	Score	72
Exons	5161..5424, 5258..5419, 5452..5841, 5537..5647, 5681..5836		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o2.gs	Method	GENSCAN
Start	5182	End	8154
GI	none	Score	.97
Exons	5182..8154		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o2.np	Method	AAT/NAP
Start	5188	End	8158
GI	3777527	Score	2253
Exons	5188..6944, 7029..8158		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	5203	End	5862
GI	none	Score	67
Exons	5203..5415, 5297..5416, 5434..5568, 5680..5850, 5689..5862		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	5203	End	5859
GI	none	Score	299
Exons	5203..5859, 5204..5851		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o3.tw	Method	TBLASTX:Wheat
Start	5626	End	6042
GI	none	Score	83
Exons	5626..5862, 5627..5851, 5890..6042		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o4.ts	Method	TBLASTX:Soybean
Start	5842	End	6070
GI	none	Score	70
Exons	5842..6066, 5903..6070		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	6103	End	6550
GI	none	Score	78
Exons	6103..6549, 6111..6395, 6113..6550		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	6212	End	6781
GI	5509260	Score	413
Exons	6212..6781, 6214..6741		
GI Descrip.	-		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	6229	End	6696
GI	none	Score	151
Exons	6229..6573, 6230..6397, 6428..6556, 6607..6696, 6613..6690		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o2.tc	Method	TBLASTX:Cress
Start	6331	End	6597
GI	none	Score	116
Exons	6331..6597, 6332..6592		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	7054	End	7689
GI	none	Score	274
Exons	7054..7206, 7188..7289, 7201..7623, 7202..7531, 7606..7689, 7626..7658		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o3.ts	Method	TBLASTX:Soybean
Start	7054	End	7515
GI	none	Score	52
Exons	7054..7182, 7073..7192, 7204..7515, 7211..7504		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o3.tc	Method	TBLASTX:Cress
Start	7055	End	7497
GI	none	Score	36
Exons	7055..7192, 7060..7191, 7207..7497, 7276..7473		

Seq. No.	57575	Seq. ID	OJ000330_35.0419.C18
Gene No.	120480	Strand	-
Start	5182	End	8158
Name	OJ000330_35.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	7357	End	7920
GI	none	Score	96
Exons	7357..7644, 7358..7459, 7372..7536, 7684..7920		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120481	Strand	-
Start	1	End	813
Name	OJ000330_35.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	813
GI	6069646	Score	324
Exons	1..34, 209..813		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	236	End	621
GI	none	Score	87
Exons	236..388, 382..621, 424..621		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849

Name	OJ000330_35.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	362	End	684
GI	none	Score	65
Exons	362..493, 370..684		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o1.gs	Method	GENSCAN
Start	1419	End	4832
GI	none	Score	.88
Exons	1419..1562, 2080..2144, 2839..3028, 3272..3448, 3904..4266, 4386..4832		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	3252	End	4829
GI	none	Score	87
Exons	3252..3449, 3255..3437, 3257..3454, 3258..3449, 3266..3454, 3895..4266, 3902..4183, 3903..4274, 3904..4266, 3904..4017, 3908..4285, 3982..4266, 4010..4267, 4015..4266, 4232..4285, 4381..4542, 4384..4734, 4386..4715, 4419..4829, 4459..4809, 4494..4829, 4699..4827, 4713..4829		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	3260	End	4638
GI	none	Score	78
Exons	3260..3400, 3263..3388, 3267..3449, 4476..4562, 4480..4560, 4602..4637, 4612..4638		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	3260	End	4562
GI	none	Score	159
Exons	3260..3409, 3264..3407, 3272..3409, 4419..4562, 4432..4560		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o2.np	Method	AAT/NAP
Start	3263	End	4849
GI	6728990	Score	1320
Exons	3263..3448, 3904..4266, 4386..4849		
GI Descrip.	(AC018363) unknown protein [Arabidopsis thaliana]		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	3401	End	4829

GI	none	Score	37
Exons	3401..3442, 3904..3939, 3908..3940, 3997..4041, 3998..4042, 4027..4266, 4034..4267, 4095..4268, 4384..4467, 4386..4469, 4386..4469, 4569..4595, 4689..4739, 4695..4739, 4725..4829, 4732..4809		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	3920	End	4829
GI	none	Score	338
Exons	3920..4267, 3921..4265, 3922..4266, 4386..4418, 4618..4809, 4620..4829		

Seq. No.	57576	Seq. ID	OJ000330_35.0419.C19
Gene No.	120482	Strand	-
Start	1419	End	4849
Name	OJ000330_35.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	3997	End	4829
GI	none	Score	190
Exons	3997..4266, 3998..4267, 4695..4829, 4696..4827, 4700..4828		

Seq. No.	57577	Seq. ID	OJ000330_35.0419.C20
Gene No.	120483	Strand	-
Start	117	End	170
Name	OJ000330_35.0419.C20.o1.gs	Method	GENSCAN
Start	117	End	170
GI	none	Score	.99
Exons	117..170		

Seq. No.	57577	Seq. ID	OJ000330_35.0419.C20
Gene No.	120484	Strand	-
Start	704	End	858
Name	OJ000330_35.0419.C20.o2.gs	Method	GENSCAN
Start	704	End	858
GI	none	Score	.61
Exons	704..858		

Seq. No.	57578	Seq. ID	OJ000330_35.0419.C21
Gene No.	120485	Strand	-
Start	60	End	2254
Name	OJ000330_35.0419.C21.o1.gs	Method	GENSCAN
Start	60	End	2251
GI	none	Score	.48
Exons	60..1916, 2141..2251		

Seq. No.	57578	Seq. ID	OJ000330_35.0419.C21
Gene No.	120485	Strand	-
Start	60	End	2254
Name	OJ000330_35.0419.C21.o3.tm	Method	TBLASTX:Maize
Start	719	End	986
GI	none	Score	154
Exons	719..889, 720..887, 725..889, 887..934, 939..986		

Seq. No.	57578	Seq. ID	OJ000330_35.0419.C21
Gene No.	120485	Strand	-

Start	60	End	2254
Name	OJ000330_35.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	1203	End	1917
GI	none	Score	129
Exons	1203..1247, 1224..1460, 1275..1445, 1280..1453, 1285..1461, 1677..1910, 1678..1914, 1684..1917		

Seq. No.	57578	Seq. ID	OJ000330_35.0419.C21
Gene No.	120485	Strand	-
Start	60	End	2254
Name	OJ000330_35.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	1242	End	2254
GI	none	Score	75
Exons	1242..1343, 1285..1347, 1761..1898, 2141..2254, 2148..2252		

Seq. No.	57578	Seq. ID	OJ000330_35.0419.C21
Gene No.	120485	Strand	-
Start	60	End	2254
Name	OJ000330_35.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	1818	End	2254
GI	none	Score	129
Exons	1818..1892, 2141..2254, 2148..2252		

Seq. No.	57578	Seq. ID	OJ000330_35.0419.C21
Gene No.	120485	Strand	-
Start	60	End	2254
Name	OJ000330_35.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	2141	End	2254
GI	none	Score	150
Exons	2141..2254, 2145..2252		

Seq. No.	57579	Seq. ID	OJ000330_35.0419.C22
Gene No.	120486	Strand	-
Start	1	End	1298
Name	OJ000330_35.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1298
GI	4038036	Score	70
Exons	1..26, 633..700, 1226..1298		
GI Descrip.	(AC005936) unknown protein [Arabidopsis thaliana]		

Seq. No.	57579	Seq. ID	OJ000330_35.0419.C22
Gene No.	120486	Strand	-
Start	1	End	1298
Name	OJ000330_35.0419.C22.o1.gs	Method	GENSCAN
Start	633	End	779
GI	none	Score	.99
Exons	633..779		

Seq. No.	57579	Seq. ID	OJ000330_35.0419.C22
Gene No.	120487	Strand	-
Start	2930	End	3764
Name	OJ000330_35.0419.C22.o1.gp	Method	AAT/GAP
Start	2930	End	3764
GI	36294_1.R1084	Score	890
Exons	2930..3303, 3631..3764		
GI Descrip.	'4102600/gb|AAD01513.1| 4.0e-42 (AF013467) ARF6 [Arabidopsis thaliana]'		

Seq. No.	57579	Seq. ID	OJ000330_35.0419.C22
Gene No.	120487	Strand	-
Start	2930	End	3764
Name	OJ000330_35.0419.C22.o2.np	Method	AAT/NAP
Start	3641	End	3764
GI	4104931	Score	95
Exons	3641..3764		
GI Descrip.	(AF042196) auxin response factor 8 [Arabidopsis thaliana]		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o1.np	Method	AAT/NAP
Start	262	End	2675
GI	4104931	Score	632
Exons	262..574, 678..1678, 2276..2423, 2635..2675		
GI Descrip.	(AF042196) auxin response factor 8 [Arabidopsis thaliana]		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	379	End	998
GI	none	Score	277
Exons	379..576, 382..576, 383..577, 386..580, 429..593, 675..998, 676..996		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o1.gs	Method	GENSCAN
Start	380	End	2496
GI	none	Score	.94
Exons	380..574, 678..1666, 2424..2496		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o1.gp	Method	AAT/GAP
Start	382	End	922
GI	36294_1.R1084	Score	817
Exons	382..574, 678..922		
GI Descrip.	'4102600/gb|AAD01513.1| 4.0e-42 (AF013467) ARF6 [Arabidopsis thaliana]'		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	384	End	2670
GI	none	Score	145
Exons	384..575, 386..580, 429..575, 1446..1478, 1527..1637, 1623..1667, 2229..2288, 2280..2426, 2281..2424, 2302..2457, 2316..2426, 2330..2434, 2632..2670		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23

Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	384	End	860
GI	none	Score	174
Exons	384..575, 386..577, 386..580, 675..695, 687..860		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o2.gp	Method	AAT/GAP
Start	923	End	1429
GI	46523_1.R1084	Score	1010
Exons	923..1429		
GI Descrip.	'4104931/gb|AAD02219.1| 2.0e-37 (AF042196) auxin response factor 8 [Arabidopsis thaliana]'		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	1029	End	2400
GI	none	Score	262
Exons	1029..1247, 1030..1251, 1064..1666, 1405..1671, 2273..2395, 2277..2396, 2277..2399, 2281..2400, 2287..2400		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o3.gp	Method	AAT/GAP
Start	1425	End	2675
GI	3761532	Score	750
Exons	1425..1666, 2276..2423, 2635..2675		
GI Descrip.	4104931/gb|AAD02219.1| 2.0e-37 (AF042196) auxin response factor 8 [Arabidopsis thaliana]		

Seq. No.	57580	Seq. ID	OJ000330_35.0419.C23
Gene No.	120488	Strand	-
Start	380	End	2675
Name	OJ000330_35.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	1446	End	2667
GI	none	Score	91
Exons	1446..1478, 1500..1685, 1527..1661, 2277..2426, 2278..2424, 2302..2463, 2632..2667		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120489	Strand	+
Start	3929	End	4400
Name	OJ000330_35.0419.C24.o2.gs	Method	GENSCAN
Start	3929	End	4400
GI	none	Score	.59
Exons	3929..3956, 4249..4400		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120490	Strand	-
Start	1	End	2711
Name	OJ000330_35.0419.C24.o1.np	Method	AAT/NAP

Start	1	End	2711
GI	4102600	Score	1094
Exons	1..76, 159..323, 409..499, 1282..1366, 1469..1624, 1743..1799, 1926..2024, 2140..2249, 2666..2711		
GI Descrip.	(AF013467) ARF6 [Arabidopsis thaliana]		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120490	Strand	-
Start	1	End	2711
Name	OJ000330_35.0419.C24.o1.gs	Method	GENSCAN
Start	159	End	2421
GI	none	Score	.96
Exons	159..242, 409..499, 1282..1366, 1469..1624, 1743..1799, 1926..2024, 2140..2249, 2352..2421		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120490	Strand	-
Start	1	End	2711
Name	OJ000330_35.0419.C24.o1.gp	Method	AAT/GAP
Start	2454	End	2705
GI	uC-osflm202112h06b1	Score	204
Exons	2454..2521, 2632..2705		
GI Descrip.	'1174745/sp|P46225|TPIC_SECCE 8.0e-16 TRIOSEPHOSPHATE ISOMERASE, CHLOROPLAST PRECURSOR (TIM) >gi_1363523_pir__S53761 triose-phosphate isomerase (EC 5.3.1.1) precursor, chloroplast - rye >gi_609262_emb_CAA83533_ (Z32521) triosephosphate isomerase [Secale cereale] >gi_1095494_prf__2109226B triosephosphate isomerase [Secale cereale]'		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120491	Strand	-
Start	5109	End	13278
Name	OJ000330_35.0419.C24.o3.gs	Method	GENSCAN
Start	5109	End	13278
GI	none	Score	.52
Exons	5109..5331, 7870..8044, 8143..8264, 11281..11346, 11613..11737, 12404..12520, 13150..13278		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120492	Strand	-
Start	15830	End	19203
Name	OJ000330_35.0419.C24.o2.gp	Method	AAT/GAP
Start	15830	End	16285
GI	none	Score	861
Exons	15830..16285		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120492	Strand	-
Start	15830	End	19203
Name	OJ000330_35.0419.C24.o2.np	Method	AAT/NAP
Start	16171	End	19203
GI	6598459	Score	2455
Exons	16171..19203		
GI Descrip.	(AC005312) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24

Gene No.	120493	Strand	-
Start	19131	End	19591
Name	OJ000330_35.0419.C24.o3.gp	Method	AAT/GAP
Start	19131	End	19591
GI	none	Score	872
Exons	19131..19591		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120494	Strand	-
Start	19861	End	19993
Name	OJ000330_35.0419.C24.o4.gp	Method	AAT/GAP
Start	19861	End	19993
GI	LIB3474-009-P1-K1-F11	Score	221
Exons	19861..19993		
GI Descrip.	'4455244/emb|CAB36743.1| 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	8	End	2251
GI	none	Score	65
Exons	8..79, 13..78, 158..340, 158..337, 162..359, 408..500, 412..507, 1277..1357, 1280..1366, 1281..1358, 1467..1634, 1469..1624, 1746..1811, 1747..1803, 1926..2027, 1927..2025, 2125..2250, 2138..2251		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o5.tm	Method	TBLASTX:Maize
Start	13	End	343
GI	none	Score	60
Exons	13..78, 14..76, 157..327, 158..343, 159..323, 163..324		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o4.ts	Method	TBLASTX:Soybean
Start	55	End	483
GI	5510202	Score	35
Exons	55..78, 56..79, 158..340, 158..337, 162..359, 411..482, 412..483, 412..483		
GI Descrip.	4104929 1.0e-30 (AF042195) auxin response factor 7 [Arabidopsis thaliana]		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	435	End	2251
GI	none	Score	87
Exons	435..500, 436..507, 1280..1366, 1281..1367, 1467..1634, 1467..1577, 1469..1624, 1741..1803, 1743..1811, 1919..1951, 1924..1992, 1926..2027, 1927..2025, 2125..2250, 2138..2251		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	1280	End	2009
GI	4306688	Score	88
Exons	1280..1366, 1281..1367, 1290..1370, 1458..1607, 1467..1622, 1469..1624, 1743..1805, 1744..1803, 1926..2009, 1927..2007		
GI Descrip.	-		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o5.ts	Method	TBLASTX:Soybean
Start	2125	End	2251
GI	none	Score	149
Exons	2125..2250, 2138..2251		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	16150	End	16691
GI	none	Score	614
Exons	16150..16686, 16154..16687, 16171..16689, 16176..16688, 16182..16691		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	16300	End	17022
GI	none	Score	168
Exons	16300..16743, 16367..16699, 16735..17022, 16747..16968		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	16318	End	16758
GI	none	Score	219
Exons	16318..16362, 16381..16716, 16388..16636, 16708..16758, 16717..16758		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o2.tc	Method	TBLASTX:Cress
Start	16384	End	18819
GI	none	Score	124
Exons	16384..16710, 16385..16693, 16735..17061, 17251..17289, 17296..17421, 17305..17544, 17341..17622, 17350..17610, 17350..17607, 17351..17593, 17351..17443, 17353..17532, 17353..17607, 17353..17613, 17353..17550, 17353..17607, 17353..17610, 17353..17607, 17353..17613, 17354..17605, 17356..17610, 17356..17610, 17417..17509, 17422..17601, 17425..17601, 17426..17509, 17488..17595, 17573..17608,		

17719..17949, 17719..17913, 17719..17940, 17725..17796,
17728..17949, 17731..17961, 17731..17940, 17731..17967,
17731..17967, 17752..17949, 17758..17949, 17812..17928,
18064..18681, 18070..18672, 18070..18477, 18079..18819,
18079..18465, 18110..18442, 18130..18681, 18131..18442,
18269..18454, 18277..18744, 18278..18457, 18337..18756,
18349..18756, 18397..18573, 18508..18759

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o3.tw	Method	TBLASTX:Wheat
Start	16768	End	17034
GI	none	Score	67
Exons	16768..17034, 16823..16975		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	16813	End	17083
GI	none	Score	63
Exons	16813..17082, 16818..17009, 16820..17083		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o3.ts	Method	TBLASTX:Soybean
Start	17296	End	18759
GI	none	Score	85
Exons	17296..17607, 17306..17443, 17348..17512, 17350..17610,		
	17353..17607, 17353..17610, 17353..17607, 17353..17592,		
	17353..17592, 17353..17607, 17353..17676, 17371..17502,		
	17419..17607, 17698..17877, 17704..17949, 17719..17940,		
	17731..17967, 17758..17970, 17758..17913, 17758..17940,		
	17788..17907, 17989..18039, 18064..18444, 18070..18177,		
	18070..18657, 18079..18393, 18088..18207, 18127..18537,		
	18202..18576, 18283..18441, 18346..18753, 18415..18672,		
	18442..18567, 18511..18681, 18709..18759		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o2.tw	Method	TBLASTX:Wheat
Start	17299	End	18465
GI	none	Score	58
Exons	17299..17652, 17327..17395, 17758..17973, 18202..18465		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	17347	End	18759
GI	none	Score	199
Exons	17347..17502, 17356..17613, 17404..17607, 17416..17544,		
	17719..17970, 17731..17838, 18079..18207, 18140..18352,		
	18154..18351, 18277..18576, 18320..18466, 18329..18466,		

18355..18648, 18357..18470, 18516..18632, 18616..18759

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o3.np	Method	AAT/NAP
Start	21867	End	23876
GI	226691	Score	266
Exons	21867..21943, 22332..22488, 23642..23876		
GI Descrip.	RNA polymerase beta'-2 [Oryza sativa]		

Seq. No.	57581	Seq. ID	OJ000330_35.0419.C24
Gene No.	120495	Strand	-
Start	21867	End	24386
Name	OJ000330_35.0419.C24.o5.gs	Method	GENSCAN
Start	22429	End	24386
GI	none	Score	.63
Exons	22429..22529, 22900..22950, 23613..23852, 24336..24386		

Seq. No.	57582	Seq. ID	OJ000330_35.0419.C25
Gene No.	120496	Strand	+
Start	150	End	1034
Name	OJ000330_35.0419.C25.o1.gs	Method	GENSCAN
Start	150	End	1034
GI	none	Score	.93
Exons	150..278, 746..1034		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120497	Strand	+
Start	1738	End	3371
Name	OJ000330_35.0419.C26.o2.gs	Method	GENSCAN
Start	1738	End	3138
GI	none	Score	.62
Exons	1738..3138		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120497	Strand	+
Start	1738	End	3371
Name	OJ000330_35.0419.C26.o1.np	Method	AAT/NAP
Start	1762	End	3371
GI	129232	Score	1653
Exons	1762..3099, 3293..3371		
GI Descrip.	ORYZAIN BETA CHAIN PRECURSOR gi|67645|pir||KHRZOB oryzain (EC 3.4.22.-) beta precursor - rice gi|218183|dbj|BAA14403.1| (D90407) oryzain beta precursor [Oryza sativa]		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120498	Strand	+
Start	5061	End	5240
Name	OJ000330_35.0419.C26.o2.gp	Method	AAT/GAP
Start	4857	End	5240
GI	LIB3432-014-P1-K1-E9	Score	698
Exons	4857..5240		
GI Descrip.	'565652/dbj|D28135|HYMRUBSCO 2.0e-10 Hydrogenovibrio marinus gene for ribulose-bisphosphate carboxylase, complete cds'		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26

Gene No.	120498	Strand	+
Start	5061	End	5240
Name	OJ000330_35.0419.C26.o3.gs	Method	GENSCAN
Start	5061	End	5240
GI	none	Score	.4
Exons	5061..5240		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120499	Strand	-
Start	176	End	1186
Name	OJ000330_35.0419.C26.o1.gs	Method	GENSCAN
Start	176	End	1186
GI	none	Score	.72
Exons	176..325, 660..742, 831..1005, 1103..1186		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120500	Strand	-
Start	4144	End	4233
Name	OJ000330_35.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	1846	End	3093
GI	none	Score	42
Exons	1846..1881, 1894..1935, 1986..2045, 1987..2052, 2071..2163, 2088..2141, 2158..2238, 2193..2243, 2227..2331, 2238..2330, 2386..2688, 2391..2687, 2740..2853, 2754..2840, 2917..3093, 2919..3071		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120500	Strand	-
Start	4144	End	4233
Name	OJ000330_35.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	1846	End	3107
GI	none	Score	120
Exons	1846..1938, 1885..1908, 1986..2045, 1987..2067, 2068..2163, 2082..2141, 2151..2687, 2152..2190, 2194..2238, 2239..2688, 2740..2853, 2748..2846, 2840..2875, 2841..2876, 2920..3096, 2922..3107		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120500	Strand	-
Start	4144	End	4233
Name	OJ000330_35.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	1894	End	3107
GI	none	Score	39
Exons	1894..1935, 1986..2045, 1987..2058, 2071..2139, 2085..2141, 2175..2237, 2194..2238, 2227..2331, 2238..2330, 2379..2684, 2380..2688, 2740..2808, 2754..2789, 2812..2853, 2920..3099, 2934..3107		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120500	Strand	-
Start	4144	End	4233
Name	OJ000330_35.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	1987	End	2796
GI	none	Score	71
Exons	1987..2058, 2085..2126, 2191..2331, 2193..2330, 2386..2622, 2391..2489, 2495..2515, 2623..2796		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120500	Strand	-
Start	4144	End	4233
Name	OJ000330_35.0419.C26.o2.tw	Method	TBLASTX:Wheat
Start	2931	End	3093
GI	none	Score	228
Exons	2931..3092, 2932..3093		

Seq. No.	57583	Seq. ID	OJ000330_35.0419.C26
Gene No.	120500	Strand	-
Start	4144	End	4233
Name	OJ000330_35.0419.C26.o1.gp	Method	AAT/GAP
Start	4144	End	4233
GI	LIB3477-003-P1-K1-E9	Score	107
Exons	4144..4233		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120501	Strand	+
Start	1	End	882
Name	OJ000330_35.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	882
GI	4715716	Score	1009
Exons	1..100, 186..301, 427..541, 628..882		
GI Descrip.	565652/dbj|D28135|HYMRUBSCO 2.0e-10 Hydrogenovibrio marinus gene for ribulose-bisphosphate carboxylase, complete cds		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120501	Strand	+
Start	1	End	882
Name	OJ000330_35.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	811
GI	7406453	Score	472
Exons	1..100, 186..301, 427..541, 628..811		
GI Descrip.	(AL162875) putative protein [Arabidopsis thaliana]		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120501	Strand	+
Start	1	End	882
Name	OJ000330_35.0419.C27.o1.gs	Method	GENSCAN
Start	186	End	826
GI	none	Score	.96
Exons	186..301, 427..451, 628..826		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120502	Strand	+
Start	5805	End	8057
Name	OJ000330_35.0419.C27.o2.gp	Method	AAT/GAP
Start	5673	End	6036
GI	2311047	Score	502
Exons	5673..5909, 5991..6036		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120502	Strand	+
Start	5805	End	8057

Name	OJ000330_35.0419.C27.o3.gs	Method	GENSCAN
Start	5805	End	8057
GI	none	Score	.99
Exons	5805..5909, 5991..6142, 6252..6377, 7895..8057		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120502	Strand	+
Start	5805	End	8057
Name	OJ000330_35.0419.C27.o3.np	Method	AAT/NAP
Start	5817	End	8057
GI	7527718	Score	168
Exons	5817..5909, 5991..6153, 6306..6558, 7888..8057		
GI Descrip.	(AC010657) T5E21.7 [Arabidopsis thaliana]		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	3	End	813
GI	none	Score	136
Exons	3..101, 3..101, 161..274, 162..269, 169..303, 172..303, 425..538, 426..542, 614..805, 625..804, 629..808, 673..813		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	3	End	805
GI	none	Score	117
Exons	3..98, 3..98, 419..535, 420..536, 628..792, 629..805		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o2.gs	Method	GENSCAN
Start	1273	End	4604
GI	none	Score	.95
Exons	1273..1824, 3718..3743, 4016..4604		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o2.np	Method	AAT/NAP
Start	1276	End	4631
GI	5091619	Score	1339
Exons	1276..1824, 2931..3184, 4016..4631		
GI Descrip.	(AC007454) F23M19.7 [Arabidopsis thaliana]		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	1342	End	3152
GI	none	Score	110
Exons	1342..1398, 1435..1827, 1616..1738, 2937..2975, 3012..3065, 3117..3152		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	1438	End	1825
GI	none	Score	98
Exons	1438..1824, 1616..1825		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	1441	End	1807
GI	none	Score	70
Exons	1441..1806, 1489..1722, 1616..1807		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120503	Strand	-
Start	1273	End	4631
Name	OJ000330_35.0419.C27.o2.ts	Method	TBLASTX:Soybean
Start	1579	End	1824
GI	none	Score	65
Exons	1579..1824, 1591..1701, 1616..1726		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120504	Strand	
Start	5795	End	6372
Name	OJ000330_35.0419.C27.o4.tm	Method	TBLASTX:Maize
Start	5795	End	6372
GI	none	Score	151
Exons	5795..5902, 5796..5909, 5969..6049, 5976..6050, 6114..6236, 6250..6318, 6250..6306, 6251..6316, 6298..6363, 6302..6361, 6304..6372		

Seq. No.	57584	Seq. ID	OJ000330_35.0419.C27
Gene No.	120505	Strand	
Start	7896	End	8064
Name	OJ000330_35.0419.C27.o3.tm	Method	TBLASTX:Maize
Start	7896	End	8064
GI	none	Score	240
Exons	7896..8057, 7898..8056, 7902..8057, 7903..8064		

Seq. No.	57585	Seq. ID	OJ000320_37.0419.C1
Gene No.	120506	Strand	+
Start	1	End	915
Name	OJ000320_37.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	915
GI	6539553	Score	1291
Exons	1..915		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	57585	Seq. ID	OJ000320_37.0419.C1
Gene No.	120506	Strand	+
Start	1	End	915

Name	OJ000320_37.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	1	End	713
GI	none	Score	107
Exons	1..78, 2..79, 2..82, 27..83, 78..392, 82..393, 141..413, 380..445, 465..713, 466..696, 474..713		

Seq. No.	57585	Seq. ID	OJ000320_37.0419.C1
Gene No.	120506	Strand	+
Start	1	End	915
Name	OJ000320_37.0419.C1.o1.gs	Method	GENSCAN
Start	117	End	878
GI	none	Score	.49
Exons	117..327, 600..878		

Seq. No.	57585	Seq. ID	OJ000320_37.0419.C1
Gene No.	120506	Strand	+
Start	1	End	915
Name	OJ000320_37.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	633	End	890
GI	5509260	Score	178
Exons	633..890		
GI Descrip.	-		

Seq. No.	57585	Seq. ID	OJ000320_37.0419.C1
Gene No.	120506	Strand	+
Start	1	End	915
Name	OJ000320_37.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	639	End	896
GI	none	Score	185
Exons	639..896		

Seq. No.	57585	Seq. ID	OJ000320_37.0419.C1
Gene No.	120506	Strand	+
Start	1	End	915
Name	OJ000320_37.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	726	End	887
GI	none	Score	177
Exons	726..887		

Seq. No.	57586	Seq. ID	OJ000320_37.0419.C3
Gene No.	120507	Strand	-
Start	76	End	399
Name	OJ000320_37.0419.C3.o1.gs	Method	GENSCAN
Start	76	End	399
GI	none	Score	.84
Exons	76..213, 272..399		

Seq. No.	57587	Seq. ID	OJ000320_37.0419.C4
Gene No.	120508	Strand	+
Start	353	End	445
Name	OJ000320_37.0419.C4.o1.gp	Method	AAT/GAP
Start	353	End	445
GI	69953_1.R1084	Score	125
Exons	353..445		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	57587	Seq. ID	OJ000320_37.0419.C4
Gene No.	120509	Strand	-
Start	567	End	891
Name	OJ000320_37.0419.C4.o1.np	Method	AAT/NAP
Start	567	End	891
GI	4544372	Score	81
Exons	567..891		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	57588	Seq. ID	OJ000320_37.0419.C5
Gene No.	120510	Strand	+
Start	387	End	563
Name	OJ000320_37.0419.C5.o1.gs	Method	GENSCAN
Start	387	End	563
GI	none	Score	.49
Exons	387..439, 465..563		

Seq. No.	57588	Seq. ID	OJ000320_37.0419.C5
Gene No.	120511	Strand	-
Start	1	End	324
Name	OJ000320_37.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	324
GI	6815097	Score	138
Exons	1..324		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	57589	Seq. ID	OJ000320_37.0419.C8
Gene No.	120512	Strand	+
Start	786	End	1545
Name	OJ000320_37.0419.C8.o1.gs	Method	GENSCAN
Start	786	End	1468
GI	none	Score	.66
Exons	786..938, 1166..1237, 1347..1468		

Seq. No.	57589	Seq. ID	OJ000320_37.0419.C8
Gene No.	120512	Strand	+
Start	786	End	1545
Name	OJ000320_37.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1166	End	1468
GI	none	Score	89
Exons	1166..1237, 1177..1236, 1338..1466, 1346..1468		

Seq. No.	57589	Seq. ID	OJ000320_37.0419.C8
Gene No.	120512	Strand	+
Start	786	End	1545
Name	OJ000320_37.0419.C8.o1.np	Method	AAT/NAP
Start	1168	End	1545
GI	3169171	Score	88
Exons	1168..1237, 1347..1545		
GI Descrip.	(AC004401) putative serine carboxypeptidase II [Arabidopsis thaliana]		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567

Name	OJ000320_37.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2567
GI	6630696	Score	2424
Exons	1..61, 995..2567		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	998	End	1384
GI	none	Score	190
Exons	998..1207, 1057..1206, 1211..1384		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	1013	End	1285
GI	none	Score	174
Exons	1013..1207, 1217..1285		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	1041	End	1775
GI	none	Score	271
Exons	1041..1199, 1042..1503, 1045..1539, 1049..1585, 1256..1588, 1593..1721, 1594..1722, 1724..1771, 1725..1775		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1743	End	2159
GI	5509260	Score	371
Exons	1743..2159, 1790..1951		
GI Descrip.	-		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1788	End	2048
GI	none	Score	291
Exons	1788..2048, 1788..1907, 1790..1960		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1829	End	2294
GI	none	Score	362
Exons	1829..1960, 1830..2294, 1983..2045, 2081..2191		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	1830	End	2375
GI	none	Score	319
Exons	1830..2174, 1847..2008, 1980..2045, 2169..2375, 2243..2365		

Seq. No.	57590	Seq. ID	OJ000320_37.0419.C9
Gene No.	120513	Strand	+
Start	1	End	2567
Name	OJ000320_37.0419.C9.o3.ts	Method	TBLASTX:Soybean
Start	2208	End	2567
GI	none	Score	136
Exons	2208..2387, 2228..2392, 2387..2560, 2388..2567		

Seq. No.	57591	Seq. ID	OJ000320_37.0419.C10
Gene No.	120514	Strand	+
Start	1	End	170
Name	OJ000320_37.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	170
GI	6630696	Score	241
Exons	1..170		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	57591	Seq. ID	OJ000320_37.0419.C10
Gene No.	120515	Strand	+
Start	318	End	389
Name	OJ000320_37.0419.C10.o1.gs	Method	GENSCAN
Start	318	End	389
GI	none	Score	.6
Exons	318..389		

Seq. No.	57591	Seq. ID	OJ000320_37.0419.C10
Gene No.	120516	Strand	-
Start	1346	End	1473
Name	OJ000320_37.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	309	End	661
GI	none	Score	62
Exons	309..380, 310..381, 382..453, 390..452, 452..526, 455..523, 456..527, 557..631, 557..661, 559..633		

Seq. No.	57591	Seq. ID	OJ000320_37.0419.C10
Gene No.	120516	Strand	-
Start	1346	End	1473
Name	OJ000320_37.0419.C10.o2.gs	Method	GENSCAN
Start	1346	End	1473
GI	none	Score	.99
Exons	1346..1473		

Seq. No.	57592	Seq. ID	OJ000320_37.0419.C11
Gene No.	120517	Strand	+
Start	1	End	914
Name	OJ000320_37.0419.C11.o1.np	Method	AAT/NAP

Start	1	End	914
GI	6598853	Score	130
Exons	1..33, 498..656, 784..914		
GI Descrip.	(AC010556) putative serine carboxypeptidase [Arabidopsis thaliana]		

Seq. No.	57592	Seq. ID	OJ000320_37.0419.C11
Gene No.	120517	Strand	+
Start	1	End	914
Name	OJ000320_37.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	523	End	841
GI	none	Score	186
Exons	523..648, 534..659, 535..657, 785..841		

Seq. No.	57592	Seq. ID	OJ000320_37.0419.C11
Gene No.	120517	Strand	+
Start	1	End	914
Name	OJ000320_37.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	535	End	841
GI	none	Score	167
Exons	535..657, 535..654, 540..656, 776..841		

Seq. No.	57592	Seq. ID	OJ000320_37.0419.C11
Gene No.	120517	Strand	+
Start	1	End	914
Name	OJ000320_37.0419.C11.o1.gs	Method	GENSCAN
Start	543	End	829
GI	none	Score	.44
Exons	543..656, 784..829		

Seq. No.	57593	Seq. ID	OJ000320_37.0419.C14
Gene No.	120518	Strand	+
Start	1	End	1238
Name	OJ000320_37.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1238
GI	3169175	Score	242
Exons	1..43, 136..335, 425..549, 1085..1238		
GI Descrip.	(AC004401) putative serine carboxypeptidase I [Arabidopsis thaliana]		

Seq. No.	57593	Seq. ID	OJ000320_37.0419.C14
Gene No.	120518	Strand	+
Start	1	End	1238
Name	OJ000320_37.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	1204
GI	none	Score	58
Exons	1..45, 3..44, 119..181, 126..329, 147..329, 200..334, 271..330, 409..528, 416..529, 423..545, 423..536, 1089..1175, 1094..1174, 1175..1204		

Seq. No.	57593	Seq. ID	OJ000320_37.0419.C14
Gene No.	120518	Strand	+
Start	1	End	1238
Name	OJ000320_37.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	126	End	1175
GI	none	Score	169
Exons	126..329, 134..265, 416..529, 416..502, 1092..1175		

Seq. No.	57593	Seq. ID	OJ000320_37.0419.C14
Gene No.	120518	Strand	+
Start	1	End	1238
Name	OJ000320_37.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	126	End	1175
GI	none	Score	158
Exons	126..329, 134..265, 416..529,	1092..1175	

Seq. No.	57593	Seq. ID	OJ000320_37.0419.C14
Gene No.	120518	Strand	+
Start	1	End	1238
Name	OJ000320_37.0419.C14.o1.gs	Method	GENSCAN
Start	136	End	1195
GI	none	Score	.66
Exons	136..335, 353..527, 589..626,	1095..1195	

Seq. No.	57593	Seq. ID	OJ000320_37.0419.C14
Gene No.	120518	Strand	+
Start	1	End	1238
Name	OJ000320_37.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	162	End	1175
GI	none	Score	130
Exons	162..329, 171..293, 173..328, 439..525, 1089..1175	414..521, 416..526, 425..520,	

Seq. No.	57594	Seq. ID	OJ000320_37.0419.C16
Gene No.	120519	Strand	+
Start	1	End	838
Name	OJ000320_37.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	838
GI	4416302	Score	572
Exons	1..838		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	57594	Seq. ID	OJ000320_37.0419.C16
Gene No.	120520	Strand	-
Start	160	End	836
Name	OJ000320_37.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	41	End	569
GI	none	Score	108
Exons	41..253, 336..569, 390..560,	395..568	

Seq. No.	57594	Seq. ID	OJ000320_37.0419.C16
Gene No.	120520	Strand	-
Start	160	End	836
Name	OJ000320_37.0419.C16.o1.gs	Method	GENSCAN
Start	160	End	378
GI	none	Score	.72
Exons	160..378		

Seq. No.	57594	Seq. ID	OJ000320_37.0419.C16
Gene No.	120520	Strand	-
Start	160	End	836
Name	OJ000320_37.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	264	End	836
GI	none	Score	68

Exons	264..329, 271..330, 354..725, 365..724, 720..836		
Seq. No.	57594	Seq. ID	OJ000320_37.0419.C16
Gene No.	120520	Strand	-
Start	160	End	836
Name	OJ000320_37.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	411	End	836
GI	none	Score	229
Exons	411..722, 431..715, 741..836		
Seq. No.	57594	Seq. ID	OJ000320_37.0419.C16
Gene No.	120520	Strand	-
Start	160	End	836
Name	OJ000320_37.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	429	End	836
GI	none	Score	159
Exons	429..719, 437..514, 510..602, 741..836, 743..835		
Seq. No.	57595	Seq. ID	OJ000320_37.0419.C17
Gene No.	120521	Strand	+
Start	1	End	559
Name	OJ000320_37.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	556
GI	6630685	Score	534
Exons	1..556		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		
Seq. No.	57595	Seq. ID	OJ000320_37.0419.C17
Gene No.	120521	Strand	+
Start	1	End	559
Name	OJ000320_37.0419.C17.o1.gs	Method	GENSCAN
Start	337	End	559
GI	none	Score	.58
Exons	337..559		
Seq. No.	57595	Seq. ID	OJ000320_37.0419.C17
Gene No.	120522	Strand	+
Start	2398	End	2931
Name	OJ000320_37.0419.C17.o2.np	Method	AAT/NAP
Start	2398	End	2931
GI	6539588	Score	235
Exons	2398..2518, 2579..2776, 2889..2931		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		
Seq. No.	57595	Seq. ID	OJ000320_37.0419.C17
Gene No.	120523	Strand	-
Start	1680	End	2900
Name	OJ000320_37.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	4	End	538
GI	none	Score	474
Exons	4..507, 5..538, 221..508		
Seq. No.	57595	Seq. ID	OJ000320_37.0419.C17
Gene No.	120523	Strand	-
Start	1680	End	2900
Name	OJ000320_37.0419.C17.o1.ts	Method	TBLASTX:Soybean

Start	17	End	568
GI	none	Score	142
Exons	17..232, 308..568		

Seq. No.	57595	Seq. ID	OJ000320_37.0419.C17
Gene No.	120523	Strand	-
Start	1680	End	2900
Name	OJ000320_37.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	38	End	493
GI	none	Score	62
Exons	38..235, 302..493, 317..493		

Seq. No.	57595	Seq. ID	OJ000320_37.0419.C17
Gene No.	120523	Strand	-
Start	1680	End	2900
Name	OJ000320_37.0419.C17.o2.gs	Method	GENSCAN
Start	1680	End	2900
GI	none	Score	.4
Exons	1680..1913, 2498..2557, 2841..2900		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18
Gene No.	120524	Strand	+
Start	7261	End	7866
Name	OJ000320_37.0419.C18.o2.gs	Method	GENSCAN
Start	7261	End	7866
GI	none	Score	.85
Exons	7261..7330, 7415..7574, 7729..7866		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18
Gene No.	120524	Strand	+
Start	7261	End	7866
Name	OJ000320_37.0419.C18.o2.np	Method	AAT/NAP
Start	7312	End	7536
GI	6735291	Score	60
Exons	7312..7536		
GI Descrip.	(AL137079) putative protein [Arabidopsis thaliana]		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18
Gene No.	120525	Strand	-
Start	429	End	5403
Name	OJ000320_37.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	426	End	3573
GI	none	Score	53
Exons	426..515, 466..513, 607..714, 612..716, 621..734, 2958..3080, 2970..3116, 2974..3132, 3170..3370, 3177..3371, 3457..3525, 3458..3526, 3544..3573		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18
Gene No.	120525	Strand	-
Start	429	End	5403
Name	OJ000320_37.0419.C18.o1.gs	Method	GENSCAN
Start	429	End	5403
GI	none	Score	.41
Exons	429..512, 2819..2856, 2975..3077, 3170..3369, 3459..3604, 3700..3969, 5384..5403		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18

Gene No.	120525	Strand	-
Start	429	End	5403
Name	OJ000320_37.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	612	End	3752
GI	none	Score	51
Exons	612..716, 2973..3080, 3170..3370, 3457..3609, 3693..3752		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18
Gene No.	120525	Strand	-
Start	429	End	5403
Name	OJ000320_37.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	612	End	3752
GI	none	Score	72
Exons	612..716, 2970..3080, 3001..3093, 3170..3370, 3240..3371, 3457..3609, 3458..3529, 3693..3752		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18
Gene No.	120525	Strand	-
Start	429	End	5403
Name	OJ000320_37.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	618	End	3344
GI	none	Score	66
Exons	618..716, 2976..3080, 2979..3077, 3170..3343, 3192..3344		

Seq. No.	57596	Seq. ID	OJ000320_37.0419.C18
Gene No.	120525	Strand	-
Start	429	End	5403
Name	OJ000320_37.0419.C18.o1.np	Method	AAT/NAP
Start	873	End	3842
GI	3169172	Score	316
Exons	873..915, 2973..3077, 3170..3369, 3459..3604, 3700..3842		
GI Descrip.	(AC004401) putative serine carboxypeptidase I [Arabidopsis thaliana]		

Seq. No.	57597	Seq. ID	OJ000320_37.0419.C19
Gene No.	120526	Strand	+
Start	874	End	2221
Name	OJ000320_37.0419.C19.o1.gs	Method	GENSCAN
Start	874	End	2221
GI	none	Score	.43
Exons	874..949, 2091..2221		

Seq. No.	57598	Seq. ID	OJ000320_37.0419.C21
Gene No.	120527	Strand	-
Start	1	End	329
Name	OJ000320_37.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	329
GI	6539588	Score	267
Exons	1..329		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	57598	Seq. ID	OJ000320_37.0419.C21
Gene No.	120527	Strand	-
Start	1	End	329
Name	OJ000320_37.0419.C21.o1.gs	Method	GENSCAN
Start	27	End	173
GI	none	Score	.87

Exons	27..173		
Seq. No.	57599	Seq. ID	OJ000320_37.0419.C25
Gene No.	120528	Strand	+
Start	1	End	2566
Name	OJ000320_37.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	2566
GI	5295955	Score	1167
Exons	1..41, 584..698, 1379..1785, 1865..1931, 1971..2436, 2465..2566		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	57599	Seq. ID	OJ000320_37.0419.C25
Gene No.	120529	Strand	-
Start	1533	End	3091
Name	OJ000320_37.0419.C25.o2.gs	Method	GENSCAN
Start	1533	End	3091
GI	none	Score	.77
Exons	1533..1666, 1708..1789, 1882..1995, 2408..2525, 2964..3091		
Seq. No.	57600	Seq. ID	OJ000320_37.0419.C26
Gene No.	120530	Strand	+
Start	1	End	1181
Name	OJ000320_37.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1181
GI	5852172	Score	145
Exons	1..79, 1050..1181		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		
Seq. No.	57601	Seq. ID	OJ000320_37.0419.C27
Gene No.	120531	Strand	+
Start	1082	End	1136
Name	OJ000320_37.0419.C27.o1.gs	Method	GENSCAN
Start	1082	End	1136
GI	none	Score	.45
Exons	1082..1136		
Seq. No.	57602	Seq. ID	OJ000320_37.0419.C28
Gene No.	120532	Strand	+
Start	953	End	5454
Name	OJ000320_37.0419.C28.o1.gs	Method	GENSCAN
Start	953	End	5305
GI	none	Score	.69
Exons	953..1090, 1411..1500, 1539..1623, 3150..3181, 3967..4200, 4250..4383, 4773..5010, 5294..5305		
Seq. No.	57602	Seq. ID	OJ000320_37.0419.C28
Gene No.	120532	Strand	+
Start	953	End	5454
Name	OJ000320_37.0419.C28.o1.gp	Method	AAT/GAP
Start	4776	End	5454
GI	none	Score	1327
Exons	4776..5454		
Seq. No.	57602	Seq. ID	OJ000320_37.0419.C28
Gene No.	120533	Strand	-
Start	6458	End	6593

Name	OJ000320_37.0419.C28.o2.gs	Method	GENSCAN
Start	6458	End	6593
GI	none	Score	.8
Exons	6458..6496, 6540..6593		

Seq. No.	57603	Seq. ID	OJ000320_37.0419.C29
Gene No.	120534	Strand	+
Start	123	End	295
Name	OJ000320_37.0419.C29.o1.gs	Method	GENSCAN
Start	123	End	295
GI	none	Score	.62
Exons	123..295		

Seq. No.	57603	Seq. ID	OJ000320_37.0419.C29
Gene No.	120535	Strand	-
Start	5454	End	8281
Name	OJ000320_37.0419.C29.o1.np	Method	AAT/NAP
Start	5454	End	8281
GI	7431851	Score	101
Exons	5454..5502, 7282..7448, 8155..8281		
GI Descrip.	glutathione reductase (NADPH) (EC 1.6.4.2), chloroplast - maize (fragment) gi|3130064|emb|CAA06835.1| (AJ006055) glutathione reductase [Zea mays]		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	4208
GI	5257279	Score	4250
Exons	1..2370, 2485..3091, 3994..4208		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o7.tw	Method	TBLASTX:Wheat
Start	128	End	424
GI	none	Score	185
Exons	128..424		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o5.tm	Method	TBLASTX:Maize
Start	791	End	1114
GI	none	Score	206
Exons	791..1114, 838..939, 1052..1114		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o6.tw	Method	TBLASTX:Wheat
Start	796	End	1174
GI	none	Score	135
Exons	796..918, 797..1018, 1016..1159, 1052..1174, 1063..1173		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o6.tm	Method	TBLASTX:Maize
Start	1249	End	1411
GI	none	Score	188
Exons	1249..1410, 1250..1411		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o2.tw	Method	TBLASTX:Wheat
Start	1346	End	1828
GI	none	Score	538
Exons	1346..1828, 1357..1653, 1466..1819, 1681..1824		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o2.tm	Method	TBLASTX:Maize
Start	1415	End	1882
GI	none	Score	383
Exons	1415..1882, 1486..1659		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	1769	End	2164
GI	none	Score	54
Exons	1769..1801, 1769..1798, 1771..1800, 1799..1948, 1805..2164, 1807..2163		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o4.tw	Method	TBLASTX:Wheat
Start	1877	End	2163
GI	none	Score	358
Exons	1877..2161, 1879..2154, 1888..2163		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o4.tm	Method	TBLASTX:Maize
Start	1898	End	2173
GI	none	Score	262
Exons	1898..2173, 1900..2172		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o3.tw	Method	TBLASTX:Wheat
Start	2163	End	2480
GI	none	Score	410
Exons	2163..2480, 2165..2467		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	2187	End	2504
GI	none	Score	104
Exons	2187..2360, 2195..2308, 2361..2504, 2363..2503		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o2.ts	Method	TBLASTX:Soybean
Start	2279	End	2525
GI	none	Score	257
Exons	2279..2524, 2280..2525		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o3.tm	Method	TBLASTX:Maize
Start	2327	End	2618
GI	none	Score	354
Exons	2327..2614, 2328..2618		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	2487	End	3113
GI	none	Score	694
Exons	2487..3113, 2489..3007, 3053..3112		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	2670	End	3254
GI	none	Score	212
Exons	2670..2828, 2672..2824, 2675..2830, 2698..2832, 2773..2955, 2814..3098, 2825..3118, 2826..3254		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o5.tw	Method	TBLASTX:Wheat
Start	3113	End	3446
GI	none	Score	350
Exons	3113..3337, 3114..3446		

Seq. No.	57604	Seq. ID	OJ000320_37.0419.C36
Gene No.	120536	Strand	+
Start	1	End	4208
Name	OJ000320_37.0419.C36.o7.tm	Method	TBLASTX:Maize
Start	3254	End	3491
GI	none	Score	186
Exons	3254..3382, 3255..3491		

Seq. No.	57605	Seq. ID	OJ000320_37.0419.C37
Gene No.	120537	Strand	+
Start	357	End	5117
Name	OJ000320_37.0419.C37.o1.gs	Method	GENSCAN
Start	357	End	5117
GI	none	Score	.48
Exons	357..363, 1647..1920, 2348..2433, 4939..5117		

Seq. No.	57606	Seq. ID	OJ000320_37.0419.C38
Gene No.	120538	Strand	-
Start	1	End	744
Name	OJ000320_37.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	744
GI	6539553	Score	1077
Exons	1..744		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	57606	Seq. ID	OJ000320_37.0419.C38
Gene No.	120538	Strand	-
Start	1	End	744
Name	OJ000320_37.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	11	End	325
GI	none	Score	288
Exons	11..256, 12..278, 37..276, 273..317, 274..324, 275..325		

Seq. No.	57606	Seq. ID	OJ000320_37.0419.C38
Gene No.	120538	Strand	-
Start	1	End	744
Name	OJ000320_37.0419.C38.o1.gs	Method	GENSCAN
Start	168	End	684
GI	none	Score	.82
Exons	168..310, 418..527, 545..684		

Seq. No.	57607	Seq. ID	OJ000320_37.0419.C39
Gene No.	120539	Strand	+
Start	55	End	489
Name	OJ000320_37.0419.C39.o1.gs	Method	GENSCAN
Start	55	End	489
GI	none	Score	.57
Exons	55..489		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	1305
GI	5257279	Score	1472
Exons	1..1305		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+

Start	1	End	1305
Name	OJ000320_37.0419.C40.o3.tw	Method	TBLASTX:Wheat
Start	1	End	357
GI	none	Score	99
Exons	1..159, 6..62, 25..87, 172..357, 198..305		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o1.gs	Method	GENSCAN
Start	139	End	1164
GI	none	Score	.6
Exons	139..1164		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o3.tm	Method	TBLASTX:Maize
Start	397	End	552
GI	none	Score	189
Exons	397..552, 399..536		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	487	End	969
GI	none	Score	548
Exons	487..969, 520..903, 555..941		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	556	End	1023
GI	none	Score	380
Exons	556..1023, 567..734		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	616	End	933
GI	none	Score	187
Exons	616..933		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	910	End	1305
GI	none	Score	54
Exons	910..942, 946..1305, 1011..1304		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305

Name	OJ000320_37.0419.C40.o2.tw	Method	TBLASTX:Wheat
Start	1018	End	1305
GI	none	Score	370
Exons	1018..1305, 1019..1117, 1062..1304		

Seq. No.	57608	Seq. ID	OJ000320_37.0419.C40
Gene No.	120540	Strand	+
Start	1	End	1305
Name	OJ000320_37.0419.C40.o2.tm	Method	TBLASTX:Maize
Start	1039	End	1305
GI	none	Score	243
Exons	1039..1305, 1071..1304		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120541	Strand	+
Start	1	End	1877
Name	OJ000320_37.0419.C41.o1.np	Method	AAT/NAP
Start	1	End	1877
GI	4680179	Score	2177
Exons	1..1877		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120541	Strand	+
Start	1	End	1877
Name	OJ000320_37.0419.C41.o1.gs	Method	GENSCAN
Start	193	End	1847
GI	none	Score	.64
Exons	193..1847		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120542	Strand	+
Start	2649	End	4228
Name	OJ000320_37.0419.C41.o1.gp	Method	AAT/GAP
Start	2649	End	4228
GI	none	Score	918
Exons	2649..2743, 2830..3076, 3155..3256, 4162..4228		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120543	Strand	-
Start	2406	End	3540
Name	OJ000320_37.0419.C41.o2.gs	Method	GENSCAN
Start	2406	End	3540
GI	none	Score	.76
Exons	2406..2640, 2667..2964, 3113..3265, 3366..3540		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894
Name	OJ000320_37.0419.C41.o3.tm	Method	TBLASTX:Maize
Start	16	End	304
GI	none	Score	119
Exons	16..99, 102..302, 140..304		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894

Name	OJ000320_37.0419.C41.o3.tw	Method	TBLASTX:Wheat
Start	16	End	314
GI	none	Score	114
Exons	16..99, 78..302, 101..313, 111..314		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894
Name	OJ000320_37.0419.C41.o2.tw	Method	TBLASTX:Wheat
Start	345	End	869
GI	none	Score	489
Exons	345..869, 587..865		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894
Name	OJ000320_37.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	657	End	917
GI	none	Score	263
Exons	657..917, 720..908		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894
Name	OJ000320_37.0419.C41.o2.tm	Method	TBLASTX:Maize
Start	716	End	1007
GI	none	Score	353
Exons	716..1003, 717..1007		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894
Name	OJ000320_37.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	876	End	1502
GI	none	Score	703
Exons	876..1502, 878..1198, 996..1499, 1235..1501		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894
Name	OJ000320_37.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	1055	End	1649
GI	none	Score	189
Exons	1055..1198, 1056..1217, 1065..1214, 1066..1221, 1203..1499, 1215..1649, 1229..1639		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894
Name	OJ000320_37.0419.C41.o4.tw	Method	TBLASTX:Wheat
Start	1502	End	1838
GI	none	Score	381
Exons	1502..1702, 1503..1838, 1674..1817		

Seq. No.	57609	Seq. ID	OJ000320_37.0419.C41
Gene No.	120544	Strand	-
Start	5548	End	5894

Name	OJ000320_37.0419.C41.o2.gp	Method	AAT/GAP
Start	5548	End	5894
GI	none	Score	565
Exons	5548..5894		

Seq. No.	57610	Seq. ID	OJ000320_37.0419.C42
Gene No.	120545	Strand	-
Start	1	End	1039
Name	OJ000320_37.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	1039
GI	7106512	Score	105
Exons	1..26, 855..906, 980..1039		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57611	Seq. ID	OJ000320_37.0419.C43
Gene No.	120546	Strand	+
Start	3991	End	4264
Name	OJ000320_37.0419.C43.o1.gp	Method	AAT/GAP
Start	3991	End	4264
GI	uC-osflcyp053f07a1	Score	342
Exons	3991..4264		
GI Descrip.	'5091496/dbj|AB023482.2|AB023482 3.0e-38 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	57611	Seq. ID	OJ000320_37.0419.C43
Gene No.	120547	Strand	-
Start	1037	End	4652
Name	OJ000320_37.0419.C43.o1.gs	Method	GENSCAN
Start	1037	End	4358
GI	none	Score	.46
Exons	1037..1329, 1624..1706, 2187..2385, 2606..3494, 4293..4358		

Seq. No.	57611	Seq. ID	OJ000320_37.0419.C43
Gene No.	120547	Strand	-
Start	1037	End	4652
Name	OJ000320_37.0419.C43.o1.np	Method	AAT/NAP
Start	1833	End	4652
GI	7248395	Score	1690
Exons	1833..2382, 2456..2608, 2671..3461, 4124..4652		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120548	Strand	+
Start	521	End	3297
Name	OJ000320_37.0419.C44.o1.gs	Method	GENSCAN
Start	521	End	3297
GI	none	Score	.6
Exons	521..621, 664..897, 1262..1390, 1395..1449, 2296..2531, 2581..2836, 3172..3297		

Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120549	Strand	+
Start	4246	End	6722
Name	OJ000320_37.0419.C44.o2.gs	Method	GENSCAN
Start	4246	End	6722
GI	none	Score	.81

Exons	4246..4484, 4576..4721, 4804..5006, 5123..5225, 5617..5690, 5936..6019, 6648..6722		
Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120549	Strand	+
Start	4246	End	6722
Name	OJ000320_37.0419.C44.o2.np	Method	AAT/NAP
Start	4285	End	6019
GI	6598855	Score	379
Exons	4285..4442, 4576..4721, 4804..5006, 5123..5259, 5585..5690, 5936..6019		
GI Descrip.	(AC010556) putative serine carboxypeptidase [Arabidopsis thaliana]		

Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120549	Strand	+
Start	4246	End	6722
Name	OJ000320_37.0419.C44.o1.gp	Method	AAT/GAP
Start	4325	End	4861
GI	uC-osflm202108g12b1	Score	528
Exons	4325..4442, 4576..4721, 4804..4861		
GI Descrip.	'1070494/pir||CPBHS 2.0e-18 serine-type carboxypeptidase (EC 3.4.16.1) precursor - barley'		

Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120550	Strand	+
Start	6906	End	7143
Name	OJ000320_37.0419.C44.o2.gp	Method	AAT/GAP
Start	6906	End	7143
GI	none	Score	405
Exons	6906..7143		

Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120551	Strand	-
Start	1	End	1023
Name	OJ000320_37.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	1023
GI	7106512	Score	135
Exons	1..67, 798..911, 964..1023		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120552	Strand	
Start	4389	End	6028
Name	OJ000320_37.0419.C44.o1.tc	Method	TBLASTX:Cress
Start	4389	End	5690
GI	none	Score	172
Exons	4389..4448, 4556..4672, 4577..4768, 4642..4722, 4823..4936, 4827..5006, 5123..5227, 5586..5690		

Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120552	Strand	
Start	4389	End	6028
Name	OJ000320_37.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	4577	End	5690
GI	none	Score	166

Exons	4577..4723, 4642..4722, 4844..4966, 4845..5006, 5123..5227, 5586..5690		
Seq. No.	57612	Seq. ID	OJ000320_37.0419.C44
Gene No.	120552	Strand	-
Start	4389	End	6028
Name	OJ000320_37.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	4607	End	6028
GI	none	Score	47
Exons	4607..4636, 4654..4722, 4655..4723, 4803..4838, 4813..4914, 4841..4999, 4842..5006, 5113..5250, 5123..5227, 5586..5690, 5588..5686, 5933..6028		
Seq. No.	57613	Seq. ID	OJ000320_37.0419.C45
Gene No.	120553	Strand	+
Start	165	End	399
Name	OJ000320_37.0419.C45.o1.gs	Method	GENSCAN
Start	165	End	399
GI	none	Score	.52
Exons	165..180, 380..399		
Seq. No.	57613	Seq. ID	OJ000320_37.0419.C45
Gene No.	120554	Strand	-
Start	1161	End	6218
Name	OJ000320_37.0419.C45.o2.gs	Method	GENSCAN
Start	1161	End	6218
GI	none	Score	.56
Exons	1161..1307, 1321..1467, 3473..3637, 3981..4251, 4318..4419, 4657..4746, 6202..6218		
Seq. No.	57614	Seq. ID	OJ000310_37.0419.C2
Gene No.	120555	Strand	+
Start	1	End	2697
Name	OJ000310_37.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	2697
GI	6382506	Score	122
Exons	1..185, 661..720, 2654..2697		
GI Descrip.	(AC010704) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	57614	Seq. ID	OJ000310_37.0419.C2
Gene No.	120555	Strand	+
Start	1	End	2697
Name	OJ000310_37.0419.C2.o1.gs	Method	GENSCAN
Start	90	End	756
GI	none	Score	.82
Exons	90..185, 661..756		
Seq. No.	57615	Seq. ID	OJ000310_37.0419.C3
Gene No.	120556	Strand	+
Start	1	End	1878
Name	OJ000310_37.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1878
GI	6382506	Score	98
Exons	1..30, 577..883, 1002..1093, 1185..1302, 1857..1878		
GI Descrip.	(AC010704) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	57615	Seq. ID	OJ000310_37.0419.C3

Gene No.	120556	Strand	+
Start	1	End	1878
Name	OJ000310_37.0419.C3.o1.gs	Method	GENSCAN
Start	672	End	1328
GI	none	Score	.63
Exons	672..883, 1002..1093, 1185..1328		

Seq. No.	57616	Seq. ID	OJ000310_37.0419.C4
Gene No.	120557	Strand	+
Start	524	End	2009
Name	OJ000310_37.0419.C4.o1.gs	Method	GENSCAN
Start	524	End	2009
GI	none	Score	.6
Exons	524..1651, 1726..2009		

Seq. No.	57616	Seq. ID	OJ000310_37.0419.C4
Gene No.	120557	Strand	+
Start	524	End	2009
Name	OJ000310_37.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	647	End	1279
GI	none	Score	210
Exons	647..934, 663..929, 1027..1227, 1042..1230, 1233..1274, 1235..1279		

Seq. No.	57617	Seq. ID	OJ000310_37.0419.C8
Gene No.	120558	Strand	+
Start	14	End	425
Name	OJ000310_37.0419.C8.o1.gs	Method	GENSCAN
Start	14	End	425
GI	none	Score	.71
Exons	14..57, 320..425		

Seq. No.	57617	Seq. ID	OJ000310_37.0419.C8
Gene No.	120559	Strand	+
Start	1000	End	1304
Name	OJ000310_37.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	28	End	375
GI	none	Score	58
Exons	28..183, 109..210, 273..374, 273..374, 274..375		

Seq. No.	57617	Seq. ID	OJ000310_37.0419.C8
Gene No.	120559	Strand	+
Start	1000	End	1304
Name	OJ000310_37.0419.C8.o2.gs	Method	GENSCAN
Start	1000	End	1304
GI	none	Score	.76
Exons	1000..1072, 1078..1304		

Seq. No.	57618	Seq. ID	OJ000310_37.0419.C9
Gene No.	120560	Strand	-
Start	973	End	1239
Name	OJ000310_37.0419.C9.o1.gs	Method	GENSCAN
Start	973	End	1239
GI	none	Score	.84
Exons	973..1239		

Seq. No.	57619	Seq. ID	OJ000310_37.0419.C10

Gene No.	120561	Strand	+
Start	1	End	182
Name	OJ000310_37.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	182
GI	6552733	Score	54
Exons	1..182		
GI Descrip.	(AC013482) T26F17.14 [Arabidopsis thaliana]		

Seq. No.	57619	Seq. ID	OJ000310_37.0419.C10
Gene No.	120562	Strand	+
Start	108	End	500
Name	OJ000310_37.0419.C10.o1.gs	Method	GENSCAN
Start	108	End	500
GI	none	Score	1
Exons	108..500		

Seq. No.	57620	Seq. ID	OJ000310_37.0419.C11
Gene No.	120563	Strand	-
Start	267	End	2855
Name	OJ000310_37.0419.C11.o1.gs	Method	GENSCAN
Start	267	End	2712
GI	none	Score	.42
Exons	267..300, 989..1136, 1148..1301, 1389..1425, 2424..2712		

Seq. No.	57620	Seq. ID	OJ000310_37.0419.C11
Gene No.	120563	Strand	-
Start	267	End	2855
Name	OJ000310_37.0419.C11.o1.np	Method	AAT/NAP
Start	2350	End	2855
GI	2388582	Score	549
Exons	2350..2855		
GI Descrip.	(AC000098) Contains similarity to Rattus O-GlcNAc transferase (gb|U76557). [Arabidopsis thaliana]		

Seq. No.	57620	Seq. ID	OJ000310_37.0419.C11
Gene No.	120564	Strand	-
Start	2788	End	2855
Name	OJ000310_37.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	2095	End	2855
GI	none	Score	98
Exons	2095..2295, 2205..2297, 2301..2636, 2301..2636, 2302..2637, 2303..2638, 2629..2853, 2630..2764, 2641..2850, 2643..2855, 2813..2854		

Seq. No.	57620	Seq. ID	OJ000310_37.0419.C11
Gene No.	120564	Strand	-
Start	2788	End	2855
Name	OJ000310_37.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	2363	End	2775
GI	none	Score	297
Exons	2363..2761, 2368..2775, 2380..2763		

Seq. No.	57620	Seq. ID	OJ000310_37.0419.C11
Gene No.	120564	Strand	-
Start	2788	End	2855
Name	OJ000310_37.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	2404	End	2718

GI	none	Score	71
Exons	2404..2676, 2412..2597, 2465..2662, 2686..2718		

Seq. No.	57620	Seq. ID	OJ000310_37.0419.C11
Gene No.	120564	Strand	-
Start	2788	End	2855
Name	OJ000310_37.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	2604	End	2855
GI	none	Score	82
Exons	2604..2660, 2605..2661, 2606..2662, 2606..2662, 2615..2764, 2626..2850, 2662..2853, 2667..2855		

Seq. No.	57620	Seq. ID	OJ000310_37.0419.C11
Gene No.	120564	Strand	-
Start	2788	End	2855
Name	OJ000310_37.0419.C11.o2.gp	Method	AAT/GAP
Start	2788	End	2855
GI	LIB3433-003-Q6-K6-H8	Score	132
Exons	2788..2855		
GI Descrip.	'2388582 1.0e-45 (AC000098) Contains similarity to Rattus O-GlcNAc transferase (gb_U76557). [Arabidopsis thaliana]'		

Seq. No.	57621	Seq. ID	OJ000310_37.0419.C12
Gene No.	120565	Strand	-
Start	1	End	2276
Name	OJ000310_37.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1705
GI	6598434	Score	1757
Exons	1..1240, 1326..1705		
GI Descrip.	(AC004681) putative O-GlcNAc transferase [Arabidopsis thaliana]		

Seq. No.	57621	Seq. ID	OJ000310_37.0419.C12
Gene No.	120565	Strand	-
Start	1	End	2276
Name	OJ000310_37.0419.C12.o1.gs	Method	GENSCAN
Start	50	End	2276
GI	none	Score	.89
Exons	50..2007, 2123..2276		

Seq. No.	57621	Seq. ID	OJ000310_37.0419.C12
Gene No.	120566	Strand	-
Start	4534	End	4649
Name	OJ000310_37.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	1	End	670
GI	none	Score	161
Exons	1..171, 2..649, 11..181, 138..647, 241..648, 362..667, 503..670		

Seq. No.	57621	Seq. ID	OJ000310_37.0419.C12
Gene No.	120566	Strand	-
Start	4534	End	4649
Name	OJ000310_37.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	118	End	670
GI	none	Score	255
Exons	118..171, 137..469, 138..467, 239..472, 244..498, 244..471, 290..565, 500..670		

Seq. No.	57621	Seq. ID	OJ000310_37.0419.C12

Gene No.	120566	Strand	-
Start	4534	End	4649
Name	OJ000310_37.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	606	End	1024
GI	none	Score	153
Exons	606..902, 608..1024		

Seq. No.	57621	Seq. ID	OJ000310_37.0419.C12
Gene No.	120566	Strand	-
Start	4534	End	4649
Name	OJ000310_37.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	1433	End	1681
GI	none	Score	82
Exons	1433..1471, 1514..1681, 1515..1589, 1517..1666		

Seq. No.	57621	Seq. ID	OJ000310_37.0419.C12
Gene No.	120566	Strand	-
Start	4534	End	4649
Name	OJ000310_37.0419.C12.o1.gp	Method	AAT/GAP
Start	4534	End	4649
GI	12487_1.R1084	Score	206
Exons	4534..4649		
GI Descrip.	'2462754 5.0e-21 (AC002292) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	57622	Seq. ID	OJ000310_37.0419.C13
Gene No.	120567	Strand	-
Start	1	End	2172
Name	OJ000310_37.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1957
GI	6760451	Score	129
Exons	1..40, 1466..1569, 1597..1792, 1860..1957		
GI Descrip.	(AF223395) S-ribonuclease binding protein SBP1 [Petunia x hybrida]		

Seq. No.	57622	Seq. ID	OJ000310_37.0419.C13
Gene No.	120567	Strand	-
Start	1	End	2172
Name	OJ000310_37.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	2	End	2170
GI	none	Score	110
Exons	2..43, 1466..1573, 1466..1516, 1474..1590, 1480..1590, 1591..1698, 1597..1683, 1601..1765, 1626..1724, 1750..1779, 1887..1979, 1943..1978, 2058..2087, 2059..2082, 2138..2170, 2140..2169		

Seq. No.	57622	Seq. ID	OJ000310_37.0419.C13
Gene No.	120567	Strand	-
Start	1	End	2172
Name	OJ000310_37.0419.C13.o1.gs	Method	GENSCAN
Start	169	End	2166
GI	none	Score	.65
Exons	169..225, 1466..1725, 1879..1976, 2066..2166		

Seq. No.	57622	Seq. ID	OJ000310_37.0419.C13
Gene No.	120567	Strand	-
Start	1	End	2172

Name	OJ000310_37.0419.C13.o1.gp	Method	AAT/GAP
Start	1304	End	2172
GI	none	Score	1259
Exons	1304..1764, 1879..1976, 2066..2172		

Seq. No.	57623	Seq. ID	OJ000310_37.0419.C14
Gene No.	120568	Strand	-
Start	1804	End	2358
Name	OJ000310_37.0419.C14.o2.gs	Method	GENSCAN
Start	1804	End	2358
GI	none	Score	.96
Exons	1804..1863, 2284..2358		

Seq. No.	57623	Seq. ID	OJ000310_37.0419.C14
Gene No.	120568	Strand	-
Start	1804	End	2358
Name	OJ000310_37.0419.C14.o1.gp	Method	AAT/GAP
Start	1888	End	2350
GI	none	Score	718
Exons	1888..2201, 2284..2350		

Seq. No.	57623	Seq. ID	OJ000310_37.0419.C14
Gene No.	120569	Strand	-
Start	2342	End	2477
Name	OJ000310_37.0419.C14.o2.gp	Method	AAT/GAP
Start	2342	End	2477
GI	none	Score	180
Exons	2342..2477		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120570	Strand	+
Start	3847	End	5406
Name	OJ000310_37.0419.C15.o2.gs	Method	GENSCAN
Start	3847	End	5406
GI	none	Score	.9
Exons	3847..4232, 4327..4611, 4703..4870, 4962..5406		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120570	Strand	+
Start	3847	End	5406
Name	OJ000310_37.0419.C15.o1.np	Method	AAT/NAP
Start	3852	End	5382
GI	6996289	Score	1281
Exons	3852..4232, 4327..4611, 4703..4870, 4962..5286, 5320..5382		
GI Descrip.	(AL138659) putative protein [Arabidopsis thaliana]		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120571	Strand	+
Start	6954	End	8137
Name	OJ000310_37.0419.C15.o2.np	Method	AAT/NAP
Start	6954	End	8137
GI	7488346	Score	539
Exons	6954..7105, 7196..7365, 8057..8137		
GI Descrip.	spliceosome-associated protein SAP62 homolog T26B15.16 - Arabidopsis thaliana gi|3298548|gb|AAC25942.1| (AC004681) putative spliceosome-associated protein [Arabidopsis thaliana]		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120571	Strand	+
Start	6954	End	8137
Name	OJ000310_37.0419.C15.o3.gs	Method	GENSCAN
Start	6954	End	8133
GI	none	Score	.8
Exons	6954..7105, 7196..7365, 8057..8133		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120572	Strand	-
Start	1855	End	3535
Name	OJ000310_37.0419.C15.o1.gp	Method	AAT/GAP
Start	1687	End	1749
GI	none	Score	75
Exons	1687..1749		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120572	Strand	-
Start	1855	End	3535
Name	OJ000310_37.0419.C15.o1.gs	Method	GENSCAN
Start	1855	End	3535
GI	none	Score	.88
Exons	1855..1969, 3411..3535		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120573	Strand	
Start	3951	End	5370
Name	OJ000310_37.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	3951	End	4224
GI	none	Score	152
Exons	3951..4046, 3955..4068, 4072..4224		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120573	Strand	
Start	3951	End	5370
Name	OJ000310_37.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	3988	End	4492
GI	none	Score	89
Exons	3988..4068, 4072..4173, 4174..4233, 4179..4232, 4328..4492, 4330..4407		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120573	Strand	
Start	3951	End	5370
Name	OJ000310_37.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	4105	End	5352
GI	none	Score	44
Exons	4105..4137, 4141..4191, 4385..4612, 4394..4507, 4474..4596, 4755..4871, 4959..5042, 4960..5061, 5068..5166, 5074..5097, 5200..5352		

Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120573	Strand	
Start	3951	End	5370
Name	OJ000310_37.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	4758	End	5175
GI	none	Score	156

Exons	4758..4871, 4758..4868, 4784..4873, 4799..4873, 4960..5061, 4971..5042, 5068..5175, 5073..5162		
Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120573	Strand	
Start	3951	End	5370
Name	OJ000310_37.0419.C15.o3.tc	Method	TBLASTX:Cress
Start	5197	End	5370
GI	none	Score	225
Exons	5197..5370, 5197..5262, 5322..5366		
Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120574	Strand	
Start	6912	End	8140
Name	OJ000310_37.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	6912	End	8136
GI	none	Score	155
Exons	6912..7109, 6914..7105, 7188..7364, 7193..7363, 8025..8132, 8044..8136, 8056..8136		
Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120574	Strand	
Start	6912	End	8140
Name	OJ000310_37.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	6949	End	8140
GI	none	Score	143
Exons	6949..7011, 6950..7105, 6951..7109, 7090..7107, 7188..7364, 7193..7363, 8028..8132, 8044..8136, 8056..8139, 8057..8140		
Seq. No.	57624	Seq. ID	OJ000310_37.0419.C15
Gene No.	120574	Strand	
Start	6912	End	8140
Name	OJ000310_37.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	6954	End	8136
GI	none	Score	139
Exons	6954..7109, 7073..7105, 7188..7319, 7193..7237, 7239..7364, 7241..7357, 8038..8115, 8053..8136, 8055..8126		
Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120575	Strand	+
Start	1	End	949
Name	OJ000310_37.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	817
GI	7488346	Score	317
Exons	1..44, 78..160, 269..343, 424..498, 605..817		
GI Descrip.	spliceosome-associated protein SAP62 homolog T26B15.16 - Arabidopsis thaliana gi|3298548|gb|AAC25942.1| (AC004681) putative spliceosome-associated protein [Arabidopsis thaliana]		
Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120575	Strand	+
Start	1	End	949
Name	OJ000310_37.0419.C16.o1.gs	Method	GENSCAN
Start	95	End	949
GI	none	Score	.86
Exons	95..160, 269..343, 424..498, 728..949		

Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120576	Strand	-
Start	1735	End	3905
Name	OJ000310_37.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	82	End	1010
GI	none	Score	65
Exons	82..159, 83..172, 83..163, 238..342, 244..333, 260..346, 263..361, 393..494, 406..501, 414..494, 418..495, 599..637, 608..655, 641..664, 655..864, 758..865, 854..940, 887..919, 904..954, 905..955, 908..967, 915..1010		

Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120576	Strand	-
Start	1735	End	3905
Name	OJ000310_37.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	134	End	652
GI	none	Score	46
Exons	134..160, 260..346, 262..345, 406..495, 426..482, 608..652		

Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120576	Strand	-
Start	1735	End	3905
Name	OJ000310_37.0419.C16.o2.gs	Method	GENSCAN
Start	1735	End	2964
GI	none	Score	.64
Exons	1735..1810, 1899..2023, 2141..2355, 2955..2964		

Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120576	Strand	-
Start	1735	End	3905
Name	OJ000310_37.0419.C16.o2.np	Method	AAT/NAP
Start	1756	End	3905
GI	1842188	Score	502
Exons	1756..1810, 1899..2023, 2141..2355, 3743..3786, 3875..3905		
GI Descrip.	(Y08499) mitochondrial phosphate translocator [Betula pendula]		

Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120576	Strand	-
Start	1735	End	3905
Name	OJ000310_37.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1774	End	3898
GI	none	Score	41
Exons	1774..1833, 1775..1810, 1898..2008, 1898..2023, 2022..2189, 2122..2304, 2141..2365, 2142..2360, 3744..3785, 3875..3898		

Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120576	Strand	-
Start	1735	End	3905
Name	OJ000310_37.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	1777	End	3785
GI	none	Score	71
Exons	1777..1833, 1898..2023, 1902..1979, 2125..2286, 2141..2365, 2142..2360, 3744..3785		

Seq. No.	57625	Seq. ID	OJ000310_37.0419.C16
Gene No.	120576	Strand	-
Start	1735	End	3905

Name	OJ000310_37.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1898	End	3785
GI	none	Score	112
Exons	1898..2008, 1898..2023, 2119..2307, 2141..2365, 2142..2360, 3744..3785		

Seq. No.	57626	Seq. ID	OJ000310_37.0419.C17
Gene No.	120577	Strand	+
Start	501	End	2033
Name	OJ000310_37.0419.C17.o1.gs	Method	GENSCAN
Start	501	End	2033
GI	none	Score	.73
Exons	501..544, 714..1005, 1890..2033		

Seq. No.	57626	Seq. ID	OJ000310_37.0419.C17
Gene No.	120578	Strand	-
Start	3412	End	5943
Name	OJ000310_37.0419.C17.o2.gs	Method	GENSCAN
Start	3412	End	5139
GI	none	Score	.83
Exons	3412..5139		

Seq. No.	57626	Seq. ID	OJ000310_37.0419.C17
Gene No.	120578	Strand	-
Start	3412	End	5943
Name	OJ000310_37.0419.C17.o1.np	Method	AAT/NAP
Start	3544	End	5943
GI	7486877	Score	790
Exons	3544..3945, 3979..5000, 5896..5943		
GI Descrip.	hypothetical protein T12G13.90 - Arabidopsis thaliana gi|5262198|emb|CAB45795.1| (AL080252) putative protein [Arabidopsis thaliana] gi|7267465|emb|CAB81161.1| (AL161510) putative protein [Arabidopsis thaliana]		

Seq. No.	57626	Seq. ID	OJ000310_37.0419.C17
Gene No.	120578	Strand	-
Start	3412	End	5943
Name	OJ000310_37.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	3988	End	4353
GI	none	Score	108
Exons	3988..4059, 4087..4239, 4097..4243, 4256..4351, 4279..4353		

Seq. No.	57627	Seq. ID	OJ000310_37.0419.C18
Gene No.	120579	Strand	+
Start	401	End	4753
Name	OJ000310_37.0419.C18.o1.gs	Method	GENSCAN
Start	401	End	4753
GI	none	Score	.52
Exons	401..403, 1304..1468, 1851..2033, 2098..2209, 2362..2447, 2721..2834, 2918..3002, 3586..3609, 4680..4753		

Seq. No.	57627	Seq. ID	OJ000310_37.0419.C18
Gene No.	120580	Strand	+
Start	6815	End	6953
Name	OJ000310_37.0419.C18.o1.gp	Method	AAT/GAP
Start	6815	End	6953
GI	5900710	Score	274

Exons	6815..6953		
Seq. No.	57627	Seq. ID	OJ000310_37.0419.C18
Gene No.	120581	Strand	-
Start	1410	End	3468
Name	OJ000310_37.0419.C18.o1.np	Method	AAT/NAP
Start	1410	End	3468
GI	7339719	Score	112
Exons	1410..1539, 3431..3468		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		
Seq. No.	57627	Seq. ID	OJ000310_37.0419.C18
Gene No.	120582	Strand	-
Start	6104	End	6884
Name	OJ000310_37.0419.C18.o2.gs	Method	GENSCAN
Start	6104	End	6884
GI	none	Score	.54
Exons	6104..6233, 6793..6884		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120583	Strand	+
Start	13451	End	16185
Name	OJ000310_37.0419.C19.o4.gs	Method	GENSCAN
Start	13451	End	16093
GI	none	Score	.63
Exons	13451..13506, 13587..13629, 14014..14220, 14274..16093		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120583	Strand	+
Start	13451	End	16185
Name	OJ000310_37.0419.C19.o3.np	Method	AAT/NAP
Start	14292	End	16185
GI	7228457	Score	2649
Exons	14292..14658, 14720..16185		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120584	Strand	-
Start	1	End	6621
Name	OJ000310_37.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	6621
GI	7493160	Score	223
Exons	1..251, 1666..1973, 2898..3077, 3460..3630, 4615..4762, 5660..5728, 6599..6621		
GI Descrip.	probable vacuolar protein sorting-associated pro tein - fission yeast (Schizosaccharomyces pombe) gi|3560143|emb|CAA20730.1| (AL031534) putative vacuolar protein sorting-associated protein [Schizosaccharomyces pombe]		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120584	Strand	-
Start	1	End	6621
Name	OJ000310_37.0419.C19.o1.gs	Method	GENSCAN
Start	1149	End	5778
GI	none	Score	.89

Exons	1149..1931, 2540..2590, 2679..2708, 2898..3077, 3460..3630, 4615..4738, 5660..5778		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120584	Strand	-
Start	1	End	6621
Name	OJ000310_37.0419.C19.o1.gp	Method	AAT/GAP
Start	1496	End	1867
GI	none	Score	717
Exons	1496..1867		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1136	End	1958
GI	none	Score	50
Exons	1136..1177, 1260..1352, 1284..1352, 1303..1353, 1332..1721, 1333..1599, 1361..1609, 1608..1958, 1639..1953		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	1800	End	1979
GI	none	Score	168
Exons	1800..1979, 1813..1974		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1878	End	3495
GI	none	Score	137
Exons	1878..1979, 1879..1974, 1880..1975, 2896..2916, 2898..3050, 2898..3077, 2899..3078, 2971..3087, 3457..3495, 3460..3492		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	2894	End	3090
GI	none	Score	112
Exons	2894..3079, 2895..3080, 2896..3090, 2896..3090		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	2898	End	4754
GI	none	Score	186
Exons	2898..3050, 2898..3077, 2899..3078, 2953..3087, 3457..3630, 3458..3631, 3460..3639, 3461..3631, 3462..3632, 4567..4746, 4611..4754, 4613..4699, 4614..4718, 4654..4746		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-

Start	11364	End	12372
Name	OJ000310_37.0419.C19.o4.ts	Method	TBLASTX:Soybean
Start	3465	End	5730
GI	none	Score	90
Exons	3465..3626, 3465..3626, 3466..3630, 3467..3631, 3472..3648, 4614..4706, 4616..4714, 4617..4763, 4654..4764, 4655..4765, 5662..5730, 5663..5725		

Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	10904	End	11886
GI	none	Score	62
Exons	10904..11053, 11468..11554, 11469..11552, 11471..11560, 11647..11886, 11651..11884, 11758..11886		

Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o2.gp	Method	AAT/GAP
Start	11197	End	11849
GI	none	Score	1032
Exons	11197..11551, 11653..11849		

Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o3.gs	Method	GENSCAN
Start	11364	End	12282
GI	none	Score	1
Exons	11364..11603, 11653..12282		

Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o2.np	Method	AAT/NAP
Start	11602	End	12278
GI	6598623	Score	516
Exons	11602..11994, 12025..12278		
GI Descrip.	(AC006837) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	11650	End	12246
GI	none	Score	68
Exons	11650..11967, 11651..11731, 11761..11925, 11819..11968, 12022..12093, 12047..12193, 12157..12246		

Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o3.ts	Method	TBLASTX:Soybean
Start	11761	End	11968
GI	none	Score	105

Exons	11761..11967, 11764..11925, 11780..11968		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120585	Strand	-
Start	11364	End	12372
Name	OJ000310_37.0419.C19.o3.gp	Method	AAT/GAP
Start	12035	End	12372
GI	none	Score	638
Exons	12035..12372		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120586	Strand	
Start	14949	End	15332
Name	OJ000310_37.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	14949	End	15332
GI	none	Score	46
Exons	14949..14993, 15000..15098, 15017..15097, 15081..15167, 15171..15332, 15176..15298		
Seq. No.	57628	Seq. ID	OJ000310_37.0419.C19
Gene No.	120587	Strand	
Start	15882	End	16184
Name	OJ000310_37.0419.C19.o3.tw	Method	TBLASTX:Wheat
Start	15882	End	16184
GI	none	Score	200
Exons	15882..16184, 16001..16183		
Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120588	Strand	+
Start	1	End	3914
Name	OJ000310_37.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	3911
GI	7228457	Score	5688
Exons	1..79, 143..977, 1100..1438, 1487..2296, 2363..3911		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120588	Strand	+
Start	1	End	3914
Name	OJ000310_37.0419.C20.o1.gs	Method	GENSCAN
Start	206	End	3914
GI	none	Score	.43
Exons	206..3536, 3601..3914		
Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120589	Strand	-
Start	4536	End	7735
Name	OJ000310_37.0419.C20.o2.gs	Method	GENSCAN
Start	4536	End	7072
GI	none	Score	.63
Exons	4536..5688, 5772..5877, 6457..6624, 6652..7072		
Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120589	Strand	-
Start	4536	End	7735

Name	OJ000310_37.0419.C20.o2.np	Method	AAT/NAP
Start	4539	End	7716
GI	6907089	Score	4221
Exons	4539..6353, 6457..7716		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120589	Strand	-
Start	4536	End	7735
Name	OJ000310_37.0419.C20.o3.gs	Method	GENSCAN
Start	7157	End	7735
GI	none	Score	.97
Exons	7157..7521, 7588..7735		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	150	End	613
GI	none	Score	221
Exons	150..608, 151..606, 152..613, 152..607		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o3.ts	Method	TBLASTX:Soybean
Start	191	End	556
GI	none	Score	118
Exons	191..415, 422..556		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	281	End	637
GI	none	Score	394
Exons	281..637, 316..627, 521..637		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o3.tm	Method	TBLASTX:Maize
Start	664	End	1048
GI	none	Score	352
Exons	664..1029, 665..1048		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o2.tw	Method	TBLASTX:Wheat
Start	721	End	5290
GI	none	Score	485
Exons	721..1146, 722..1144, 5192..5290		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454

Name	OJ000310_37.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	800	End	1171
GI	none	Score	280
Exons	800..1171, 817..975		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o4.tw	Method	TBLASTX:Wheat
Start	1817	End	2275
GI	none	Score	232
Exons	1817..2071, 1841..2092, 1906..2082, 2126..2275, 2135..2272		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	1964	End	2530
GI	5666795	Score	69
Exons	1964..2062, 2138..2275, 2291..2530		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o6.tw	Method	TBLASTX:Wheat
Start	2278	End	2590
GI	none	Score	239
Exons	2278..2454, 2279..2590, 2291..2497		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	2783	End	3145
GI	none	Score	366
Exons	2783..3106, 2812..3093, 2903..3115, 3010..3126, 3098..3145		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o3.tw	Method	TBLASTX:Wheat
Start	2920	End	3301
GI	none	Score	378
Exons	2920..2997, 2921..3301, 2924..3262, 3022..3270		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o5.tw	Method	TBLASTX:Wheat
Start	3302	End	3902
GI	none	Score	107
Exons	3302..3421, 3306..3365, 3307..3405, 3433..3486, 3440..3535, 3440..3583, 3441..3590, 3672..3746, 3776..3898, 3777..3902		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-

Start	8353	End	8454
Name	OJ000310_37.0419.C20.o4.tm	Method	TBLASTX:Maize
Start	3770	End	3914
GI	none	Score	184
Exons	3770..3910, 3771..3914		

Seq. No.	57629	Seq. ID	OJ000310_37.0419.C20
Gene No.	120590	Strand	-
Start	8353	End	8454
Name	OJ000310_37.0419.C20.o3.np	Method	AAT/NAP
Start	8353	End	8454
GI	7523512	Score	136
Exons	8353..8454		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120591	Strand	+
Start	1	End	4619
Name	OJ000310_37.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	2748
GI	4249662	Score	166
Exons	1..85, 210..315, 387..491, 609..659, 2670..2748		
GI Descrip.	(AF089810) Altered Response to Gravity [Arabidopsis thaliana] gi|6714354|gb|AAF26045.1|AC015986_8 (AC015986) ARG1 protein (Altered Response to Gravity) [Arabidopsis thaliana]		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120591	Strand	+
Start	1	End	4619
Name	OJ000310_37.0419.C21.o1.gs	Method	GENSCAN
Start	387	End	4619
GI	none	Score	.73
Exons	387..491, 609..659, 2151..2236, 4041..4134, 4554..4619		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120592	Strand	+
Start	7810	End	9656
Name	OJ000310_37.0419.C21.o2.gp	Method	AAT/GAP
Start	7746	End	8624
GI	17970_1.R1084	Score	834
Exons	7746..7965, 8123..8215, 8307..8411, 8515..8624		
GI Descrip.	'3108209 5.0e-46 (AF028809) eukaryotic cap-binding protein [Arabidopsis thaliana]'		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120592	Strand	+
Start	7810	End	9656
Name	OJ000310_37.0419.C21.o2.gs	Method	GENSCAN
Start	7810	End	8239
GI	none	Score	.81
Exons	7810..7965, 8123..8239		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120592	Strand	+
Start	7810	End	9656
Name	OJ000310_37.0419.C21.o2.np	Method	AAT/NAP
Start	7822	End	9656

GI	3108209	Score	342
Exons	7822..7965, 8123..8215, 8307..8411, 8515..8592, 8657..8834, 9591..9656		
GI Descrip.	(AF028809) eukaryotic cap-binding protein [Arabidopsis thaliana]		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120593	Strand	-
Start	377	End	4302
Name	OJ000310_37.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	216	End	662
GI	none	Score	66
Exons	216..317, 243..317, 383..493, 390..494, 404..502, 606..659, 607..660, 608..661, 612..662		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120593	Strand	-
Start	377	End	4302
Name	OJ000310_37.0419.C21.o2.tc	Method	TBLASTX:Cress
Start	217	End	659
GI	none	Score	84
Exons	217..315, 243..317, 383..490, 390..494, 606..659		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120593	Strand	-
Start	377	End	4302
Name	OJ000310_37.0419.C21.o1.gp	Method	AAT/GAP
Start	377	End	4302
GI	none	Score	1259
Exons	377..496, 607..656, 1372..1661, 3749..3782, 4008..4302		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120594	Strand	
Start	8116	End	8595
Name	OJ000310_37.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	8116	End	8595
GI	none	Score	127
Exons	8116..8214, 8120..8218, 8125..8217, 8297..8413, 8307..8411, 8311..8412, 8512..8595, 8514..8594		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120594	Strand	
Start	8116	End	8595
Name	OJ000310_37.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	8120	End	8595
GI	none	Score	76
Exons	8120..8176, 8125..8160, 8173..8217, 8174..8218, 8291..8422, 8307..8411, 8494..8592, 8512..8595, 8514..8594		

Seq. No.	57630	Seq. ID	OJ000310_37.0419.C21
Gene No.	120594	Strand	
Start	8116	End	8595
Name	OJ000310_37.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	8125	End	8595
GI	none	Score	138
Exons	8125..8217, 8126..8218, 8291..8422, 8307..8411, 8512..8595, 8514..8594		

Seq. No.	57631	Seq. ID	OJ000310_37.0419.C22
Gene No.	120595	Strand	+
Start	1	End	838
Name	OJ000310_37.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	832
GI	3108209	Score	333
Exons	1..45, 503..622, 704..832		
GI Descrip.	(AF028809) eukaryotic cap-binding protein [Arabidopsis thaliana]		

Seq. No.	57631	Seq. ID	OJ000310_37.0419.C22
Gene No.	120595	Strand	+
Start	1	End	838
Name	OJ000310_37.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	452	End	838
GI	none	Score	164
Exons	452..622, 547..624, 568..618, 703..837	700..834, 701..838, 701..781,	

Seq. No.	57631	Seq. ID	OJ000310_37.0419.C22
Gene No.	120595	Strand	+
Start	1	End	838
Name	OJ000310_37.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	501	End	835
GI	none	Score	184
Exons	501..626, 518..622, 700..834,	701..835, 703..834	

Seq. No.	57631	Seq. ID	OJ000310_37.0419.C22
Gene No.	120595	Strand	+
Start	1	End	838
Name	OJ000310_37.0419.C22.o1.gs	Method	GENSCAN
Start	503	End	835
GI	none	Score	.87
Exons	503..622, 704..835		

Seq. No.	57631	Seq. ID	OJ000310_37.0419.C22
Gene No.	120595	Strand	+
Start	1	End	838
Name	OJ000310_37.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	518	End	774
GI	none	Score	173
Exons	518..622, 547..648, 568..618,	701..772, 703..774	

Seq. No.	57632	Seq. ID	OJ000310_37.0419.C26
Gene No.	120596	Strand	+
Start	132	End	302
Name	OJ000310_37.0419.C26.o1.gs	Method	GENSCAN
Start	132	End	302
GI	none	Score	.91
Exons	132..302		

Seq. No.	57633	Seq. ID	OJ000310_37.0419.C27
Gene No.	120597	Strand	-
Start	1	End	2134
Name	OJ000310_37.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	2134
GI	7487507	Score	897
Exons	1..293, 377..584, 1298..1348,	1434..1570, 1951..2134	

GI Descrip. hypothetical protein T29A15.130 - Arabidopsis thaliana gi|4469015|emb|CAB38276.1| (AL035602) putative protein [Arabidopsis thaliana] gi|7269618|emb|CAB81414.1| (AL161571) putative protein [Arabidopsis thaliana]

Seq. No.	57633	Seq. ID	OJ000310_37.0419.C27
Gene No.	120597	Strand	-
Start	1	End	2134
Name	OJ000310_37.0419.C27.o1.gs	Method	GENSCAN
Start	66	End	2083
GI	none	Score	.68
Exons	66..293, 449..563, 1434..1570, 1951..2083		

Seq. No.	57633	Seq. ID	OJ000310_37.0419.C27
Gene No.	120597	Strand	-
Start	1	End	2134
Name	OJ000310_37.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	256	End	1480
GI	none	Score	54
Exons	256..294, 261..296, 374..592, 375..590, 377..592, 378..611, 1270..1350, 1271..1348, 1409..1480		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120598	Strand	+
Start	2114	End	6370
Name	OJ000310_37.0419.C28.o1.gs	Method	GENSCAN
Start	2114	End	6370
GI	none	Score	.65
Exons	2114..2305, 2341..2562, 2584..3074, 3175..3342, 3447..3612, 4033..4143, 4254..4447, 5514..5816, 5920..6080, 6291..6370		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120598	Strand	+
Start	2114	End	6370
Name	OJ000310_37.0419.C28.o1.np	Method	AAT/NAP
Start	2815	End	5817
GI	2511715	Score	1167
Exons	2815..3074, 3175..3342, 3447..3612, 4033..4143, 4254..4447, 4541..4662, 4776..4875, 5511..5817		
GI Descrip.	(AF019380) putative phosphatidylinositol-4-phosphate 5-kinase [Arabidopsis thaliana]		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173
Name	OJ000310_37.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	2787	End	5820
GI	none	Score	109
Exons	2787..2897, 2809..2886, 2995..3075, 3018..3146, 3215..3343, 3226..3342, 3444..3614, 3445..3591, 3451..3624, 4030..4143, 4032..4133, 4248..4469, 4257..4448, 4259..4453, 4539..4661, 4541..4651, 5511..5564, 5512..5574, 5619..5813, 5620..5814, 5650..5820		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173

Name	OJ000310_37.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	3025	End	3545
GI	none	Score	70
Exons	3025..3075, 3027..3074, 3140..3343, 3178..3342, 3435..3545, 3445..3543		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173
Name	OJ000310_37.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	3215	End	3614
GI	none	Score	216
Exons	3215..3343, 3226..3342, 3435..3614, 3445..3591, 3477..3614		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173
Name	OJ000310_37.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	4030	End	4622
GI	none	Score	126
Exons	4030..4134, 4248..4442, 4252..4440, 4254..4448, 4536..4622, 4539..4622		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173
Name	OJ000310_37.0419.C28.o3.ts	Method	TBLASTX:Soybean
Start	4030	End	5805
GI	none	Score	102
Exons	4030..4143, 5523..5558, 5524..5562, 5641..5805, 5655..5804		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173
Name	OJ000310_37.0419.C28.o2.ts	Method	TBLASTX:Soybean
Start	4257	End	4625
GI	none	Score	233
Exons	4257..4445, 4259..4336, 4260..4445, 4539..4592, 4542..4625		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173
Name	OJ000310_37.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	4542	End	5766
GI	none	Score	98
Exons	4542..4622, 5614..5766, 5622..5765		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-
Start	7255	End	8173
Name	OJ000310_37.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	5614	End	5813
GI	none	Score	224
Exons	5614..5805, 5622..5804, 5652..5813		

Seq. No.	57634	Seq. ID	OJ000310_37.0419.C28
Gene No.	120599	Strand	-

Start	7255	End	8173
Name	OJ000310_37.0419.C28.o2.gs	Method	GENSCAN
Start	7255	End	8173
GI	none	Score	.78
Exons	7255..7473, 8120..8173		

Seq. No.	57635	Seq. ID	OJ000310_37.0419.C29
Gene No.	120600	Strand	+
Start	3087	End	3483
Name	OJ000310_37.0419.C29.o1.gs	Method	GENSCAN
Start	3087	End	3454
GI	none	Score	1
Exons	3087..3275, 3364..3454		

Seq. No.	57635	Seq. ID	OJ000310_37.0419.C29
Gene No.	120600	Strand	+
Start	3087	End	3483
Name	OJ000310_37.0419.C29.o2.np	Method	AAT/NAP
Start	3093	End	3483
GI	6554180	Score	235
Exons	3093..3278, 3364..3483		
GI Descrip.	(AC011661) T23J18.7 [Arabidopsis thaliana]		

Seq. No.	57635	Seq. ID	OJ000310_37.0419.C29
Gene No.	120601	Strand	-
Start	557	End	3473
Name	OJ000310_37.0419.C29.o1.np	Method	AAT/NAP
Start	557	End	3353
GI	7106528	Score	83
Exons	557..693, 910..959, 3313..3353		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57635	Seq. ID	OJ000310_37.0419.C29
Gene No.	120601	Strand	-
Start	557	End	3473
Name	OJ000310_37.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	3078	End	3473
GI	none	Score	262
Exons	3078..3272, 3140..3271, 3364..3417, 3364..3408, 3426..3473		

Seq. No.	57636	Seq. ID	OJ000310_37.0419.C30
Gene No.	120602	Strand	+
Start	1	End	2488
Name	OJ000310_37.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	2207
GI	6554180	Score	96
Exons	1..33, 1331..1558, 2085..2207		
GI Descrip.	(AC011661) T23J18.7 [Arabidopsis thaliana]		

Seq. No.	57636	Seq. ID	OJ000310_37.0419.C30
Gene No.	120602	Strand	+
Start	1	End	2488
Name	OJ000310_37.0419.C30.o1.gs	Method	GENSCAN
Start	515	End	2222
GI	none	Score	.84
Exons	515..682, 1334..1558, 1600..1629, 2085..2222		

Seq. No.	57636	Seq. ID	OJ000310_37.0419.C30
Gene No.	120602	Strand	+
Start	1	End	2488
Name	OJ000310_37.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	1328	End	2488
GI	none	Score	52
Exons	1328..1375, 1331..1375, 1382..1483, 1388..1453, 1390..1458, 1468..1566, 1469..1561, 2082..2198, 2082..2210, 2414..2488		

Seq. No.	57637	Seq. ID	OJ000310_37.0419.C31
Gene No.	120603	Strand	-
Start	120	End	3751
Name	OJ000310_37.0419.C31.o1.gs	Method	GENSCAN
Start	120	End	3661
GI	none	Score	.67
Exons	120..400, 876..981, 1278..1403, 1729..1788, 1899..1974, 2175..2332, 2464..2526, 2638..2722, 3408..3661		

Seq. No.	57637	Seq. ID	OJ000310_37.0419.C31
Gene No.	120603	Strand	-
Start	120	End	3751
Name	OJ000310_37.0419.C31.o1.np	Method	AAT/NAP
Start	924	End	3751
GI	1255448	Score	769
Exons	924..1136, 1278..1385, 1729..1788, 1902..1974, 2175..2332, 2464..2526, 2638..2722, 3408..3751		
GI Descrip.	(D50468) mitogen-activated protein kinase [Arabidopsis thaliana]		

Seq. No.	57637	Seq. ID	OJ000310_37.0419.C31
Gene No.	120603	Strand	-
Start	120	End	3751
Name	OJ000310_37.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	988	End	3478
GI	none	Score	86
Exons	988..1131, 990..1133, 1276..1362, 1281..1364, 1281..1364, 1726..1797, 1727..1780, 1900..1977, 1902..1985, 1902..1976, 1912..1977, 2174..2335, 2193..2333, 2479..2514, 2641..2721, 2642..2722, 3410..3478		

Seq. No.	57637	Seq. ID	OJ000310_37.0419.C31
Gene No.	120603	Strand	-
Start	120	End	3751
Name	OJ000310_37.0419.C31.o2.tm	Method	TBLASTX:Maize
Start	995	End	1390
GI	none	Score	172
Exons	995..1135, 996..1136, 996..1136, 997..1137, 997..1137, 1277..1387, 1278..1388, 1279..1386, 1280..1390		

Seq. No.	57637	Seq. ID	OJ000310_37.0419.C31
Gene No.	120603	Strand	-
Start	120	End	3751
Name	OJ000310_37.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	1896	End	3570
GI	none	Score	68
Exons	1896..1976, 1899..1973, 1900..1977, 1913..1990, 2147..2323, 2174..2335, 2181..2339, 2187..2360, 2460..2528, 2461..2529,		

2464..2508, 2636..2722, 2638..2721, 3407..3517, 3408..3518, 3514..3570

Seq. No.	57637	Seq. ID	OJ000310_37.0419.C31
Gene No.	120603	Strand	-
Start	120	End	3751
Name	OJ000310_37.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	2175	End	3490
GI	none	Score	128
Exons	2175..2339, 2177..2335, 2464..2508, 2638..2730, 3407..3490		

Seq. No.	57637	Seq. ID	OJ000310_37.0419.C31
Gene No.	120603	Strand	-
Start	120	End	3751
Name	OJ000310_37.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	2306	End	3619
GI	none	Score	84
Exons	2306..2335, 2462..2542, 2464..2508, 2636..2722, 2638..2721, 3407..3619, 3408..3515		

Seq. No.	57638	Seq. ID	OJ000310_37.0419.C32
Gene No.	120604	Strand	-
Start	35	End	531
Name	OJ000310_37.0419.C32.o1.gs	Method	GENSCAN
Start	35	End	531
GI	none	Score	.94
Exons	35..531		

Seq. No.	57638	Seq. ID	OJ000310_37.0419.C32
Gene No.	120604	Strand	-
Start	35	End	531
Name	OJ000310_37.0419.C32.o1.np	Method	AAT/NAP
Start	186	End	531
GI	3688209	Score	80
Exons	186..531		
GI Descrip.	(AJ010093) MAP3K beta 1 protein kinase [Brassica napus]		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6
Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1791
GI	7228457	Score	1963
Exons	1..462, 526..1359, 1482..1791		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6
Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	533	End	996
GI	none	Score	224
Exons	533..976, 534..989, 535..996, 535..990		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6

Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	574	End	939
GI	none	Score	118
Exons	574..798, 805..939		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6
Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o1.gs	Method	GENSCAN
Start	589	End	1374
GI	none	Score	.99
Exons	589..1374		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6
Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	664	End	1020
GI	none	Score	392
Exons	664..1020, 699..1010, 715..1020		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6
Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1047	End	1430
GI	none	Score	281
Exons	1047..1133, 1048..1332, 1082..1264, 1191..1331, 1320..1430		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6
Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	1104	End	1523
GI	none	Score	275
Exons	1104..1334, 1105..1335, 1317..1523, 1343..1516		

Seq. No.	57639	Seq. ID	OJ000250_38.0419.C6
Gene No.	120605	Strand	+
Start	1	End	1791
Name	OJ000250_38.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	1183	End	1553
GI	none	Score	154
Exons	1183..1326, 1200..1325, 1371..1553		

Seq. No.	57640	Seq. ID	OJ000250_38.0419.C11
Gene No.	120606	Strand	+
Start	47	End	349
Name	OJ000250_38.0419.C11.o1.gs	Method	GENSCAN
Start	47	End	349
GI	none	Score	.73
Exons	47..349		

Seq. No.	57640	Seq. ID	OJ000250_38.0419.C11
Gene No.	120607	Strand	-

Start	1	End	1393
Name	OJ000250_38.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1393
GI	5042454	Score	504
Exons	1..323, 979..1393		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	57640	Seq. ID	OJ000250_38.0419.C11
Gene No.	120607	Strand	-
Start	1	End	1393
Name	OJ000250_38.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	975	End	1121
GI	none	Score	126
Exons	975..1121, 982..1116		

Seq. No.	57640	Seq. ID	OJ000250_38.0419.C11
Gene No.	120607	Strand	-
Start	1	End	1393
Name	OJ000250_38.0419.C11.o2.gs	Method	GENSCAN
Start	978	End	1103
GI	none	Score	.81
Exons	978..1103		

Seq. No.	57641	Seq. ID	OJ000250_38.0419.C16
Gene No.	120608	Strand	+
Start	87	End	719
Name	OJ000250_38.0419.C16.o1.np	Method	AAT/NAP
Start	87	End	719
GI	6907089	Score	1103
Exons	87..719		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	57642	Seq. ID	OJ000250_38.0419.C17
Gene No.	120609	Strand	-
Start	1	End	176
Name	OJ000250_38.0419.C17.o1.gp	Method	AAT/GAP
Start	1	End	176
GI	2315_5.R1084	Score	249
Exons	1..176		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	57642	Seq. ID	OJ000250_38.0419.C17
Gene No.	120610	Strand	-
Start	1452	End	2165
Name	OJ000250_38.0419.C17.o1.gs	Method	GENSCAN
Start	1452	End	2165
GI	none	Score	.92
Exons	1452..1678, 1729..1866, 2117..2165		

Seq. No.	57643	Seq. ID	OJ000250_38.0419.C22
Gene No.	120611	Strand	+
Start	377	End	667
Name	OJ000250_38.0419.C22.o1.gs	Method	GENSCAN
Start	377	End	667
GI	none	Score	.51
Exons	377..667		

Seq. No.	57644	Seq. ID	OJ000250_38.0419.C23
Gene No.	120612	Strand	-
Start	1	End	978
Name	OJ000250_38.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	978
GI	1399277	Score	364
Exons	1..104, 269..384, 742..978		
GI Descrip.	(U31836) calmodulin-domain protein kinase CDPK isoform 7 [Arabidopsis thaliana]		

Seq. No.	57644	Seq. ID	OJ000250_38.0419.C23
Gene No.	120612	Strand	-
Start	1	End	978
Name	OJ000250_38.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	1	End	899
GI	none	Score	87
Exons	1..105, 6..110, 267..386, 293..385, 743..898, 747..899		

Seq. No.	57644	Seq. ID	OJ000250_38.0419.C23
Gene No.	120612	Strand	-
Start	1	End	978
Name	OJ000250_38.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	3	End	956
GI	none	Score	76
Exons	3..98, 6..110, 7..105, 267..380, 272..382, 293..382, 737..898, 740..898, 741..947, 798..956		

Seq. No.	57644	Seq. ID	OJ000250_38.0419.C23
Gene No.	120612	Strand	-
Start	1	End	978
Name	OJ000250_38.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	6	End	899
GI	none	Score	109
Exons	6..110, 267..380, 290..382, 293..385, 743..898, 744..899		

Seq. No.	57644	Seq. ID	OJ000250_38.0419.C23
Gene No.	120612	Strand	-
Start	1	End	978
Name	OJ000250_38.0419.C23.o1.gs	Method	GENSCAN
Start	39	End	894
GI	none	Score	1
Exons	39..104, 269..384, 742..894		

Seq. No.	57644	Seq. ID	OJ000250_38.0419.C23
Gene No.	120612	Strand	-
Start	1	End	978
Name	OJ000250_38.0419.C23.o1.gp	Method	AAT/GAP
Start	318	End	858
GI	LIB3434-013-P1-K1-D1	Score	276
Exons	318..384, 742..858		
GI Descrip.	'5162877/dbj|BAA81748.1| 1.0e-29 (AB017515) calcium-dependent protein kinase [Marchantia polymorpha] >gi_5162880_dbj_BAA81750.1_ (AB017516) calcium-dependent protein kinase [Marchantia polymorpha]'		

Seq. No.	57644	Seq. ID	OJ000250_38.0419.C23

Gene No.	120612	Strand	-
Start	1	End	978
Name	OJ000250_38.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	733	End	953
GI	none	Score	90
Exons	733..894, 734..892, 734..898, 747..953		

Seq. No.	57645	Seq. ID	OJ000250_38.0419.C26
Gene No.	120613	Strand	+
Start	553	End	1659
Name	OJ000250_38.0419.C26.o1.gs	Method	GENSCAN
Start	553	End	1659
GI	none	Score	.86
Exons	553..688, 758..1659		

Seq. No.	57646	Seq. ID	OJ000250_38.0419.C31
Gene No.	120614	Strand	-
Start	1	End	2292
Name	OJ000250_38.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	2292
GI	282994	Score	752
Exons	1..81, 109..163, 238..350, 420..512, 705..753, 1332..1422, 1540..1786, 2182..2292		
GI Descrip.	Sip1 protein - barley gi|167100 (M77475) seed imbibition protein [Hordeum vulgare]		

Seq. No.	57646	Seq. ID	OJ000250_38.0419.C31
Gene No.	120614	Strand	-
Start	1	End	2292
Name	OJ000250_38.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	1	End	2279
GI	none	Score	60
Exons	1..87, 2..52, 118..171, 119..172, 119..172, 223..339, 255..350, 256..342, 417..515, 423..521, 427..537, 664..756, 693..773, 1325..1426, 1326..1445, 1538..1657, 1539..1631, 1637..1774, 1674..1772, 2211..2279, 2213..2278		

Seq. No.	57646	Seq. ID	OJ000250_38.0419.C31
Gene No.	120614	Strand	-
Start	1	End	2292
Name	OJ000250_38.0419.C31.o2.tc	Method	TBLASTX:Cress
Start	1	End	2279
GI	none	Score	38
Exons	1..66, 112..171, 234..284, 241..288, 270..350, 271..345, 2211..2279, 2213..2278		

Seq. No.	57646	Seq. ID	OJ000250_38.0419.C31
Gene No.	120614	Strand	-
Start	1	End	2292
Name	OJ000250_38.0419.C31.o1.gs	Method	GENSCAN
Start	17	End	2290
GI	none	Score	.81
Exons	17..163, 238..350, 381..512, 705..753, 1332..1422, 1540..1772, 2211..2290		

Seq. No.	57646	Seq. ID	OJ000250_38.0419.C31
Gene No.	120614	Strand	-

Start	1	End	2292
Name	OJ000250_38.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	115	End	1772
GI	none	Score	75
Exons	115..162, 268..342, 282..344, 415..525, 417..521, 702..755, 1325..1426, 1532..1654, 1652..1768, 1677..1763, 1677..1772		

Seq. No.	57646	Seq. ID	OJ000250_38.0419.C31
Gene No.	120614	Strand	-
Start	1	End	2292
Name	OJ000250_38.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	448	End	1772
GI	none	Score	88
Exons	448..513, 450..521, 679..750, 693..764, 1325..1426, 1326..1442, 1538..1666, 1539..1634, 1655..1768, 1674..1763, 1674..1772		

Seq. No.	57646	Seq. ID	OJ000250_38.0419.C31
Gene No.	120614	Strand	-
Start	1	End	2292
Name	OJ000250_38.0419.C31.o2.np	Method	AAT/NAP
Start	475	End	2292
GI	282994	Score	437
Exons	475..512, 705..753, 1332..1422, 1540..1786, 2182..2292		
GI Descrip.	Sipl protein - barley gi|167100 (M77475) seed imbibition protein [Hordeum vulgare]		

Seq. No.	57647	Seq. ID	OJ000250_38.0419.C32
Gene No.	120615	Strand	-
Start	228	End	1156
Name	OJ000250_38.0419.C32.o1.gs	Method	GENSCAN
Start	228	End	915
GI	none	Score	.43
Exons	228..296, 655..744, 844..915		

Seq. No.	57647	Seq. ID	OJ000250_38.0419.C32
Gene No.	120615	Strand	-
Start	228	End	1156
Name	OJ000250_38.0419.C32.o1.np	Method	AAT/NAP
Start	349	End	1156
GI	5042454	Score	231
Exons	349..402, 655..908, 1107..1156		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	57648	Seq. ID	OJ000250_38.0419.C43
Gene No.	120616	Strand	-
Start	21	End	664
Name	OJ000250_38.0419.C43.o1.gs	Method	GENSCAN
Start	21	End	664
GI	none	Score	.69
Exons	21..298, 634..664		

Seq. No.	57649	Seq. ID	OJ000250_38.0419.C49
Gene No.	120617	Strand	-
Start	1	End	799
Name	OJ000250_38.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	799
GI	5302796	Score	361

Exons	1..166, 295..462, 733..799		
GI Descrip.	(Z97341) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	57649	Seq. ID	OJ000250_38.0419.C49
Gene No.	120617	Strand	-
Start	1	End	799
Name	OJ000250_38.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	1	End	456
GI	none	Score	74
Exons	1..123, 2..163, 3..164, 12..164, 280..456, 300..446		
Seq. No.	57649	Seq. ID	OJ000250_38.0419.C49
Gene No.	120617	Strand	-
Start	1	End	799
Name	OJ000250_38.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	2	End	456
GI	none	Score	163
Exons	2..163, 9..155, 280..456, 292..447		
Seq. No.	57649	Seq. ID	OJ000250_38.0419.C49
Gene No.	120617	Strand	-
Start	1	End	799
Name	OJ000250_38.0419.C49.o1.gp	Method	AAT/GAP
Start	19	End	799
GI	19323_1.R1084	Score	587
Exons	19..166, 295..444, 763..799		
GI Descrip.	'5302796/emb|CAB46038.1| 4.0e-91 (Z97341) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	57649	Seq. ID	OJ000250_38.0419.C49
Gene No.	120617	Strand	-
Start	1	End	799
Name	OJ000250_38.0419.C49.o1.gs	Method	GENSCAN
Start	295	End	450
GI	none	Score	.91
Exons	295..450		
Seq. No.	57650	Seq. ID	OJ000320_30.0419.C1
Gene No.	120618	Strand	+
Start	3482	End	3955
Name	OJ000320_30.0419.C1.o1.np	Method	AAT/NAP
Start	3482	End	3955
GI	6175185	Score	141
Exons	3482..3674, 3749..3836, 3906..3955		
GI Descrip.	(AC011437) ankyrin-like protein [Arabidopsis thaliana]		
Seq. No.	57650	Seq. ID	OJ000320_30.0419.C1
Gene No.	120619	Strand	+
Start	5439	End	6675
Name	OJ000320_30.0419.C1.o2.np	Method	AAT/NAP
Start	5439	End	6675
GI	5852182	Score	369
Exons	5439..5584, 6423..6675		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		
Seq. No.	57650	Seq. ID	OJ000320_30.0419.C1
Gene No.	120619	Strand	+

Start	5439	End	6675
Name	OJ000320_30.0419.C1.o1.gp	Method	AAT/GAP
Start	5975	End	6562
GI	2310235	Score	310
Exons	5975..6012, 6423..6562		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	57650	Seq. ID	OJ000320_30.0419.C1
Gene No.	120620	Strand	-
Start	4886	End	6587
Name	OJ000320_30.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	3495	End	3832
GI	none	Score	169
Exons	3495..3674, 3501..3674, 3734..3832, 3746..3829		

Seq. No.	57650	Seq. ID	OJ000320_30.0419.C1
Gene No.	120620	Strand	-
Start	4886	End	6587
Name	OJ000320_30.0419.C1.o2.gs	Method	GENSCAN
Start	4886	End	6587
GI	none	Score	.87
Exons	4886..5007, 5155..5197, 6450..6587		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120621	Strand	+
Start	1	End	3484
Name	OJ000320_30.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	743
GI	6742729	Score	1166
Exons	1..743		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120621	Strand	+
Start	1	End	3484
Name	OJ000320_30.0419.C2.o2.np	Method	AAT/NAP
Start	1	End	3466
GI	4680204	Score	447
Exons	1..54, 650..1205, 1280..2379, 2489..2662, 2759..2978, 3329..3466		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120621	Strand	+
Start	1	End	3484
Name	OJ000320_30.0419.C2.o1.gs	Method	GENSCAN
Start	73	End	3484
GI	none	Score	.68
Exons	73..735, 792..1205, 1280..2379, 2489..2662, 2759..2869, 2954..3026, 3299..3484		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120622	Strand	-
Start	1	End	745
Name	OJ000320_30.0419.C2.o1.gp	Method	AAT/GAP
Start	1	End	745
GI	342_1.R1084	Score	1347

Exons	1..745		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120623	Strand	-
Start	3724	End	3802
Name	OJ000320_30.0419.C2.o2.gp	Method	AAT/GAP
Start	3724	End	3802
GI	LIB3477-003-P1-K1-E9	Score	140
Exons	3724..3802		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120624	Strand	-
Start	3805	End	3950
Name	OJ000320_30.0419.C2.o3.np	Method	AAT/NAP
Start	3805	End	3950
GI	7106528	Score	59
Exons	3805..3950		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120625	Strand	-
Start	3855	End	3997
Name	OJ000320_30.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	13	End	471
GI	none	Score	247
Exons	13..267, 25..267, 277..471		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120625	Strand	-
Start	3855	End	3997
Name	OJ000320_30.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	22	End	437
GI	none	Score	140
Exons	22..126, 33..122, 130..228, 135..227, 208..432, 228..437, 230..433, 231..437		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120625	Strand	-
Start	3855	End	3997
Name	OJ000320_30.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	301	End	543
GI	none	Score	214
Exons	301..543		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120625	Strand	-
Start	3855	End	3997
Name	OJ000320_30.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	532	End	756
GI	none	Score	106
Exons	532..654, 534..677, 651..743, 652..741, 656..742, 664..756		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120625	Strand	-
Start	3855	End	3997
Name	OJ000320_30.0419.C2.o3.tw	Method	TBLASTX:Wheat
Start	2306	End	2828
GI	none	Score	60
Exons	2306..2386, 2475..2657, 2525..2650, 2757..2828		

Seq. No.	57651	Seq. ID	OJ000320_30.0419.C2
Gene No.	120625	Strand	-
Start	3855	End	3997
Name	OJ000320_30.0419.C2.o3.gp	Method	AAT/GAP
Start	3855	End	3997
GI	21474_1.R1084	Score	230
Exons	3855..3997		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	57652	Seq. ID	OJ000320_30.0419.C3
Gene No.	120626	Strand	-
Start	924	End	1117
Name	OJ000320_30.0419.C3.o1.gs	Method	GENSCAN
Start	924	End	1117
GI	none	Score	.52
Exons	924..1117		

Seq. No.	57653	Seq. ID	OJ000320_30.0419.C4
Gene No.	120627	Strand	+
Start	206	End	399
Name	OJ000320_30.0419.C4.o1.gs	Method	GENSCAN
Start	206	End	399
GI	none	Score	.94
Exons	206..399		

Seq. No.	57654	Seq. ID	OJ000320_30.0419.C5
Gene No.	120628	Strand	+
Start	158	End	648
Name	OJ000320_30.0419.C5.o1.gs	Method	GENSCAN
Start	158	End	648
GI	none	Score	.54
Exons	158..215, 512..648		

Seq. No.	57654	Seq. ID	OJ000320_30.0419.C5
Gene No.	120629	Strand	-
Start	965	End	2649
Name	OJ000320_30.0419.C5.o2.gs	Method	GENSCAN
Start	965	End	2649
GI	none	Score	.4
Exons	965..970, 1181..1261, 2131..2192, 2527..2649		

Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120630	Strand	+
Start	1666	End	4611
Name	OJ000320_30.0419.C6.o1.gs	Method	GENSCAN
Start	1666	End	4611
GI	none	Score	.4

Exons	1666..1767, 2012..2084, 2089..2192, 2510..2694, 2852..3228, 3394..3431, 3593..3790, 3896..3918, 4001..4433, 4474..4611		
Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120630	Strand	+
Start	1666	End	4611
Name	OJ000320_30.0419.C6.o2.np	Method	AAT/NAP
Start	2595	End	4262
GI	6721558	Score	255
Exons	2595..2694, 3394..3526, 4049..4262		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120630	Strand	+
Start	1666	End	4611
Name	OJ000320_30.0419.C6.o3.np	Method	AAT/NAP
Start	3025	End	4602
GI	6721561	Score	1015
Exons	3025..3093, 3593..3790, 3860..3918, 4001..4602		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120631	Strand	-
Start	1635	End	2167
Name	OJ000320_30.0419.C6.o1.np	Method	AAT/NAP
Start	1635	End	2167
GI	7523517	Score	396
Exons	1635..1716, 1867..2167		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o5.np	Method	AAT/NAP
Start	3563	End	9020
GI	7228457	Score	1269
Exons	3563..3676, 4314..4584, 7364..8299, 8354..9020		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o4.np	Method	AAT/NAP
Start	3868	End	5755
GI	5902448	Score	436
Exons	3868..3913, 5375..5755		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		
Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6

Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o2.gp	Method	AAT/GAP
Start	5144	End	5429
GI	61605_1.R1084	Score	457
Exons	5144..5429		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o3.tw	Method	TBLASTX:Wheat
Start	7268	End	7637
GI	none	Score	202
Exons	7268..7534, 7270..7533, 7486..7584, 7527..7637		

Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	7270	End	7492
GI	none	Score	132
Exons	7270..7491, 7271..7492		

Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	7722	End	8078
GI	none	Score	231
Exons	7722..8078, 7723..8016		

Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	7752	End	8208
GI	none	Score	397
Exons	7752..8207, 7753..8208		

Seq. No.	57655	Seq. ID	OJ000320_30.0419.C6
Gene No.	120632	Strand	-
Start	3563	End	9020
Name	OJ000320_30.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	8400	End	8855
GI	none	Score	125
Exons	8400..8636, 8415..8624, 8518..8634, 8673..8855, 8674..8847		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120633	Strand	+
Start	6971	End	7744
Name	OJ000320_30.0419.C7.o2.gs	Method	GENSCAN
Start	6971	End	7744
GI	none	Score	.78
Exons	6971..7744		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o1.np	Method	AAT/NAP
Start	8201	End	12742
GI	4680179	Score	4311
Exons	8201..9235, 9338..12742		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o3.gs	Method	GENSCAN
Start	8315	End	12710
GI	none	Score	.51
Exons	8315..9407, 9485..10853, 10952..12710		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o7.tw	Method	TBLASTX:Wheat
Start	8411	End	8788
GI	none	Score	225
Exons	8411..8788, 8578..8742		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o8.tw	Method	TBLASTX:Wheat
Start	9356	End	9780
GI	none	Score	71
Exons	9356..9436, 9445..9549, 9594..9728, 9607..9780		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	9904	End	10362
GI	none	Score	531
Exons	9904..10362, 9980..10201, 10008..10358		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o5.tm	Method	TBLASTX:Maize
Start	9913	End	10203
GI	none	Score	297
Exons	9913..10203, 10014..10202, 10048..10203		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o4.tm	Method	TBLASTX:Maize
Start	10273	End	10773
GI	none	Score	76
Exons	10273..10344, 10281..10400, 10438..10773, 10465..10728		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	10327	End	10722
GI	none	Score	57
Exons	10327..10359, 10327..10356, 10344..10400, 10411..10722, 10485..10619		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o5.tw	Method	TBLASTX:Wheat
Start	10435	End	10734
GI	none	Score	399
Exons	10435..10734, 10450..10689, 10589..10711		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	10737	End	11246
GI	none	Score	106
Exons	10737..10961, 10738..10965, 10740..10967, 10962..11162, 10964..11215, 10965..11246		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	10809	End	11164
GI	none	Score	190
Exons	10809..10970, 10810..10965, 10965..11156, 10982..11164		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o4.tw	Method	TBLASTX:Wheat
Start	11250	End	11729
GI	none	Score	504
Exons	11250..11729, 11433..11693, 11500..11724, 11528..11725		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	11436	End	11753
GI	none	Score	99
Exons	11436..11609, 11610..11753, 11612..11752		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	11528	End	11777
GI	none	Score	266
Exons	11528..11770, 11529..11777, 11574..11777		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	11541	End	11797
GI	none	Score	347
Exons	11541..11795, 11547..11792, 11549..11797		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	11736	End	12362
GI	none	Score	711
Exons	11736..12362, 11741..12361		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	11916	End	12500
GI	none	Score	196
Exons	11916..12077, 11918..12070, 12075..12500, 12075..12350, 12077..12490		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o6.tw	Method	TBLASTX:Wheat
Start	12362	End	12698
GI	none	Score	370
Exons	12362..12478, 12363..12698, 12366..12491, 12519..12572, 12539..12694		

Seq. No.	57656	Seq. ID	OJ000320_30.0419.C7
Gene No.	120634	Strand	+
Start	8201	End	12751
Name	OJ000320_30.0419.C7.o6.tm	Method	TBLASTX:Maize
Start	12504	End	12751
GI	none	Score	173
Exons	12504..12704, 12707..12751		

Seq. No.	57657	Seq. ID	OJ000320_30.0419.C8
Gene No.	120635	Strand	+
Start	1	End	236
Name	OJ000320_30.0419.C8.o1.gp	Method	AAT/GAP
Start	1	End	236
GI	57406_2.R1084	Score	396
Exons	1..236		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	57657	Seq. ID	OJ000320_30.0419.C8
Gene No.	120636	Strand	-
Start	652	End	693

Name	OJ000320_30.0419.C8.o1.gs	Method	GENSCAN
Start	652	End	693
GI	none	Score	.5
Exons	652..693		

Seq. No.	57658	Seq. ID	OJ000320_30.0419.C9
Gene No.	120637	Strand	+
Start	755	End	2699
Name	OJ000320_30.0419.C9.o2.np	Method	AAT/NAP
Start	755	End	2699
GI	4680186	Score	214
Exons	755..793, 2559..2699		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	57658	Seq. ID	OJ000320_30.0419.C9
Gene No.	120638	Strand	+
Start	3518	End	3905
Name	OJ000320_30.0419.C9.o2.gs	Method	GENSCAN
Start	3518	End	3838
GI	none	Score	.76
Exons	3518..3838		

Seq. No.	57658	Seq. ID	OJ000320_30.0419.C9
Gene No.	120638	Strand	+
Start	3518	End	3905
Name	OJ000320_30.0419.C9.o3.np	Method	AAT/NAP
Start	3581	End	3905
GI	4680185	Score	433
Exons	3581..3905		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	57658	Seq. ID	OJ000320_30.0419.C9
Gene No.	120639	Strand	-
Start	1	End	1660
Name	OJ000320_30.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1660
GI	5852179	Score	534
Exons	1..46, 127..365, 440..652, 1640..1660		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	57658	Seq. ID	OJ000320_30.0419.C9
Gene No.	120639	Strand	-
Start	1	End	1660
Name	OJ000320_30.0419.C9.o1.gs	Method	GENSCAN
Start	134	End	547
GI	none	Score	.56
Exons	134..390, 440..547		

Seq. No.	57658	Seq. ID	OJ000320_30.0419.C9
Gene No.	120640	Strand	-
Start	2198	End	2632
Name	OJ000320_30.0419.C9.o2.gp	Method	AAT/GAP
Start	2198	End	2632
GI	uC-osf1cyp033a04b1	Score	133
Exons	2198..2220, 2554..2632		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120641	Strand	+
Start	3134	End	11187
Name	OJ000320_30.0419.C10.o2.gs	Method	GENSCAN
Start	3134	End	6152
GI	none	Score	.59
Exons	3134..3218, 4298..4444, 4638..4806, 4826..4879, 5057..5144, 5181..6152		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120641	Strand	+
Start	3134	End	11187
Name	OJ000320_30.0419.C10.o1.np	Method	AAT/NAP
Start	5073	End	9095
GI	6539553	Score	6331
Exons	5073..7354, 7474..9095		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120641	Strand	+
Start	3134	End	11187
Name	OJ000320_30.0419.C10.o3.gs	Method	GENSCAN
Start	7007	End	11187
GI	none	Score	.65
Exons	7007..7177, 7506..7791, 7861..7985, 8307..9094, 9306..9331, 9881..10027, 10221..10267, 10409..10462, 10879..11187		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o6.tw	Method	TBLASTX:Wheat
Start	818	End	1216
GI	none	Score	112
Exons	818..1093, 867..1088, 1052..1165, 1062..1142, 1166..1216		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o4.tw	Method	TBLASTX:Wheat
Start	5067	End	5454
GI	none	Score	354
Exons	5067..5453, 5078..5452, 5125..5454		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	5202	End	5515
GI	none	Score	369
Exons	5202..5513, 5210..5515		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+

Start	13770	End	15921
Name	OJ000320_30.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	6014	End	6336
GI	none	Score	257
Exons	6014..6268, 6021..6335, 6041..6334, 6169..6336		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o5.ts	Method	TBLASTX:Soybean
Start	6363	End	6749
GI	none	Score	88
Exons	6363..6518, 6501..6749		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o5.tw	Method	TBLASTX:Wheat
Start	6468	End	6806
GI	none	Score	267
Exons	6468..6806, 6600..6785		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o5.tm	Method	TBLASTX:Maize
Start	6540	End	6971
GI	none	Score	282
Exons	6540..6971		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	6759	End	7156
GI	none	Score	186
Exons	6759..6983, 6760..6804, 6774..6929, 6830..6979, 6984..7022, 7016..7156		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	6807	End	7679
GI	none	Score	280
Exons	6807..7022, 6815..7069, 7019..7255, 7021..7260, 7023..7262, 7515..7679, 7516..7659, 7520..7678		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	7599	End	8063
GI	5509260	Score	365
Exons	7599..8063		
GI Descrip.	-		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	7692	End	7952
GI	none	Score	274
Exons	7692..7952		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	7740	End	8198
GI	none	Score	334
Exons	7740..8198, 7869..8051		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o3.tw	Method	TBLASTX:Wheat
Start	7749	End	8288
GI	none	Score	288
Exons	7749..8078, 8094..8288		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	8132	End	8477
GI	none	Score	294
Exons	8132..8332, 8133..8477		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o4.tm	Method	TBLASTX:Maize
Start	8289	End	8627
GI	none	Score	314
Exons	8289..8627, 8289..8378, 8394..8612, 8399..8626		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	8483	End	8959
GI	none	Score	101
Exons	8483..8554, 8484..8558, 8484..8564, 8573..8959, 8574..8921, 8575..8958		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o4.ts	Method	TBLASTX:Soybean
Start	8490	End	8831
GI	none	Score	95
Exons	8490..8603, 8516..8596, 8622..8831, 8627..8752		

Seq. No.	57659	Seq. ID	OJ000320_30.0419.C10
Gene No.	120642	Strand	+
Start	13770	End	15921
Name	OJ000320_30.0419.C10.o4.gs	Method	GENSCAN
Start	13770	End	15921
GI	none	Score	.58
Exons	13770..14394, 14518..14711, 15100..15262, 15740..15829, 15869..15921		

Seq. No.	57660	Seq. ID	OJ000320_30.0419.C11
Gene No.	120643	Strand	-
Start	1	End	448
Name	OJ000320_30.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	291
GI	6686408	Score	121
Exons	1..291		
GI Descrip.	(AC007234) F1E22.7 [Arabidopsis thaliana]		

Seq. No.	57660	Seq. ID	OJ000320_30.0419.C11
Gene No.	120643	Strand	-
Start	1	End	448
Name	OJ000320_30.0419.C11.o1.gs	Method	GENSCAN
Start	57	End	448
GI	none	Score	.77
Exons	57..448		

Seq. No.	57660	Seq. ID	OJ000320_30.0419.C11
Gene No.	120644	Strand	-
Start	2291	End	3249
Name	OJ000320_30.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	209
GI	none	Score	191
Exons	2..205, 3..209		

Seq. No.	57660	Seq. ID	OJ000320_30.0419.C11
Gene No.	120644	Strand	-
Start	2291	End	3249
Name	OJ000320_30.0419.C11.o2.gs	Method	GENSCAN
Start	2291	End	3249
GI	none	Score	.58
Exons	2291..2456, 3191..3249		

Seq. No.	57661	Seq. ID	OJ000320_30.0419.C14
Gene No.	120645	Strand	+
Start	400	End	478
Name	OJ000320_30.0419.C14.o1.np	Method	AAT/NAP
Start	400	End	478
GI	6630699	Score	71
Exons	400..478		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	57661	Seq. ID	OJ000320_30.0419.C14
Gene No.	120646	Strand	-
Start	1475	End	3127
Name	OJ000320_30.0419.C14.o2.np	Method	AAT/NAP

Start	618	End	2587
GI	5922620	Score	157
Exons	618..766, 2148..2212, 2250..2587		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57661	Seq. ID	OJ000320_30.0419.C14
Gene No.	120646	Strand	-
Start	1475	End	3127
Name	OJ000320_30.0419.C14.o1.gs	Method	GENSCAN
Start	1475	End	3127
GI	none	Score	.57
Exons	1475..1538, 2076..2247, 2410..2551, 2596..2793, 3095..3127		

Seq. No.	57662	Seq. ID	OJ000320_30.0419.C15
Gene No.	120647	Strand	+
Start	364	End	7788
Name	OJ000320_30.0419.C15.o1.gs	Method	GENSCAN
Start	364	End	5593
GI	none	Score	.49
Exons	364..452, 680..824, 1348..1452, 1540..1701, 2669..2767, 2854..2956, 3040..3686, 4281..4560, 4784..4903, 5572..5593		

Seq. No.	57662	Seq. ID	OJ000320_30.0419.C15
Gene No.	120647	Strand	+
Start	364	End	7788
Name	OJ000320_30.0419.C15.o2.np	Method	AAT/NAP
Start	540	End	2327
GI	6539586	Score	170
Exons	540..566, 1748..2056, 2105..2327		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	57662	Seq. ID	OJ000320_30.0419.C15
Gene No.	120647	Strand	+
Start	364	End	7788
Name	OJ000320_30.0419.C15.o1.np	Method	AAT/NAP
Start	793	End	876
GI	6630699	Score	82
Exons	793..876		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	57662	Seq. ID	OJ000320_30.0419.C15
Gene No.	120647	Strand	+
Start	364	End	7788
Name	OJ000320_30.0419.C15.o3.np	Method	AAT/NAP
Start	1987	End	3766
GI	6721561	Score	324
Exons	1987..2048, 2623..2980, 3140..3766		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical		

protein [Oryza sativa]

Seq. No.	57662	Seq. ID	OJ000320_30.0419.C15
Gene No.	120647	Strand	+
Start	364	End	7788
Name	OJ000320_30.0419.C15.o4.np	Method	AAT/NAP
Start	4716	End	7788
GI	6634764	Score	373
Exons	4716..4913, 6231..6312, 6662..6748, 7189..7280, 7676..7788		
GI Descrip.	(AC009917) Strong similarity to gb|AF021220 Nicotiana tabacum cation-chloride co-transporter and contains an amino acid permease PF|00324 domain. [Arabidopsis thaliana]		

Seq. No.	57662	Seq. ID	OJ000320_30.0419.C15
Gene No.	120648	Strand	-
Start	6688	End	7453
Name	OJ000320_30.0419.C15.o2.gs	Method	GENSCAN
Start	6688	End	7453
GI	none	Score	.56
Exons	6688..6704, 7414..7453		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120649	Strand	+
Start	558	End	4593
Name	OJ000320_30.0419.C16.o1.gs	Method	GENSCAN
Start	558	End	4461
GI	none	Score	.66
Exons	558..806, 892..1006, 1714..1908, 2602..3002, 3249..3332, 3497..4461		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120649	Strand	+
Start	558	End	4593
Name	OJ000320_30.0419.C16.o1.np	Method	AAT/NAP
Start	610	End	4593
GI	6634764	Score	2978
Exons	610..806, 892..1006, 1714..1908, 2602..3002, 3249..3410, 3497..4593		
GI Descrip.	(AC009917) Strong similarity to gb|AF021220 Nicotiana tabacum cation-chloride co-transporter and contains an amino acid permease PF|00324 domain. [Arabidopsis thaliana]		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120649	Strand	+
Start	558	End	4593
Name	OJ000320_30.0419.C16.o1.gp	Method	AAT/GAP
Start	1840	End	3736
GI	8209_1.R1084	Score	1676
Exons	1840..1908, 2602..3002, 3249..3410, 3497..3736		
GI Descrip.	'2582381 1.0e-146 (AF021220) cation-chloride co-transporter [Nicotiana tabacum]'		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1825	End	3891

GI	none	Score	43
Exons	1825..1884, 1868..1933, 2554..3009, 2588..3001, 3543..3650, 3548..3880, 3562..3888, 3565..3891		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	1858	End	2812
GI	none	Score	85
Exons	1858..1908, 1859..1933, 2587..2811, 2588..2812		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	2795	End	3420
GI	none	Score	350
Exons	2795..3001, 2798..2968, 2800..3009, 3247..3279, 3247..3408, 3248..3409, 3327..3410, 3328..3420		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	2861	End	4119
GI	none	Score	258
Exons	2861..3007, 2861..2968, 2866..3009, 3250..3408, 3251..3409, 3255..3410, 3312..3410, 3495..4118, 3495..3656, 3496..4119, 3496..4104		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o2.gp	Method	AAT/GAP
Start	3845	End	4640
GI	4433 1.R1084	Score	1549
Exons	3845..4640		
GI Descrip.	'2582381 2.0e-83 (AF021220) cation-chloride co-transporter [Nicotiana tabacum]'		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o3.ts	Method	TBLASTX:Soybean
Start	3903	End	4116
GI	none	Score	205
Exons	3903..4115, 3910..4116, 3925..4116		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	4120	End	4622
GI	none	Score	462
Exons	4120..4446, 4120..4605, 4127..4612, 4128..4598, 4146..4622, 4498..4611		

Seq. No.	57663	Seq. ID	OJ000320_30.0419.C16
Gene No.	120650	Strand	-
Start	3845	End	4640
Name	OJ000320_30.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	4120	End	4521
GI	none	Score	118
Exons	4120..4203, 4143..4202, 4245..4520, 4246..4446, 4273..4521, 4308..4520, 4498..4521		

Seq. No.	57664	Seq. ID	OJ000320_30.0419.C17
Gene No.	120651	Strand	-
Start	1	End	258
Name	OJ000320_30.0419.C17.o1.gp	Method	AAT/GAP
Start	1	End	258
GI	4433_1.R1084	Score	516
Exons	1..258		
GI Descrip.	'2582381 2.0e-83 (AF021220) cation-chloride co-transporter [Nicotiana tabacum]'		

Seq. No.	57664	Seq. ID	OJ000320_30.0419.C17
Gene No.	120652	Strand	-
Start	617	End	2382
Name	OJ000320_30.0419.C17.o1.gs	Method	GENSCAN
Start	617	End	2382
GI	none	Score	.71
Exons	617..760, 1267..1436, 1557..1843, 2231..2382		

Seq. No.	57665	Seq. ID	OJ000320_30.0419.C18
Gene No.	120653	Strand	-
Start	1385	End	1594
Name	OJ000320_30.0419.C18.o1.gs	Method	GENSCAN
Start	1385	End	1594
GI	none	Score	.98
Exons	1385..1594		

Seq. No.	57666	Seq. ID	OJ000320_30.0419.C19
Gene No.	120654	Strand	+
Start	685	End	1009
Name	OJ000320_30.0419.C19.o1.gs	Method	GENSCAN
Start	685	End	1009
GI	none	Score	.84
Exons	685..851, 946..1009		

Seq. No.	57667	Seq. ID	OJ000320_30.0419.C20
Gene No.	120655	Strand	+
Start	808	End	1117
Name	OJ000320_30.0419.C20.o1.gs	Method	GENSCAN
Start	808	End	1117
GI	none	Score	.7
Exons	808..1117		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120656	Strand	+
Start	1	End	1047
Name	OJ000320_30.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1044

GI	6983860	Score	1513
Exons	1..1044		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120656	Strand	+
Start	1	End	1047
Name	OJ000320_30.0419.C23.o1.gs	Method	GENSCAN
Start	211	End	1047
GI	none	Score	.75
Exons	211..1047		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120657	Strand	-
Start	1707	End	2709
Name	OJ000320_30.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	103	End	666
GI	none	Score	668
Exons	103..666, 123..665		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120657	Strand	-
Start	1707	End	2709
Name	OJ000320_30.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	220	End	804
GI	none	Score	230
Exons	220..381, 226..372, 228..383, 228..374, 378..680, 379..804		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120657	Strand	-
Start	1707	End	2709
Name	OJ000320_30.0419.C23.o2.tw	Method	TBLASTX:Wheat
Start	666	End	999
GI	none	Score	377
Exons	666..740, 667..999, 670..771, 759..806		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120657	Strand	-
Start	1707	End	2709
Name	OJ000320_30.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	808	End	1051
GI	none	Score	179
Exons	808..1020, 838..1020, 1013..1051, 1022..1051		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120657	Strand	-
Start	1707	End	2709
Name	OJ000320_30.0419.C23.o2.gs	Method	GENSCAN
Start	1707	End	2151
GI	none	Score	.89
Exons	1707..2058, 2063..2151		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120657	Strand	-
Start	1707	End	2709
Name	OJ000320_30.0419.C23.o2.np	Method	AAT/NAP

Start	1808	End	2709
GI	5852180	Score	341
Exons	1808..2287, 2601..2709		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	57668	Seq. ID	OJ000320_30.0419.C23
Gene No.	120657	Strand	-
Start	1707	End	2709
Name	OJ000320_30.0419.C23.o1.gp	Method	AAT/GAP
Start	2355	End	2426
GI	uC-osroM202024h08a1	Score	80
Exons	2355..2426		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	57669	Seq. ID	OJ000320_30.0419.C24
Gene No.	120658	Strand	+
Start	1	End	167
Name	OJ000320_30.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	167
GI	6063554	Score	99
Exons	1..167		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57669	Seq. ID	OJ000320_30.0419.C24
Gene No.	120659	Strand	+
Start	351	End	588
Name	OJ000320_30.0419.C24.o1.gs	Method	GENSCAN
Start	351	End	588
GI	none	Score	.76
Exons	351..354, 548..588		

Seq. No.	57669	Seq. ID	OJ000320_30.0419.C24
Gene No.	120660	Strand	-
Start	177	End	4454
Name	OJ000320_30.0419.C24.o2.np	Method	AAT/NAP
Start	177	End	3812
GI	5852180	Score	59
Exons	177..264, 3775..3812		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	57669	Seq. ID	OJ000320_30.0419.C24
Gene No.	120660	Strand	-
Start	177	End	4454
Name	OJ000320_30.0419.C24.o2.gs	Method	GENSCAN
Start	1343	End	4454
GI	none	Score	.4
Exons	1343..1447, 1927..2006, 2313..2418, 2820..3379, 3498..3553, 3733..3811, 4134..4454		

Seq. No.	57670	Seq. ID	OJ000320_30.0419.C25
Gene No.	120661	Strand	+
Start	345	End	419
Name	OJ000320_30.0419.C25.o1.gs	Method	GENSCAN
Start	345	End	419

GI	none	Score	.95
Exons	345..419		

Seq. No.	57670	Seq. ID	OJ000320_30.0419.C25
Gene No.	120662	Strand	+
Start	2803	End	2957
Name	OJ000320_30.0419.C25.o1.gp	Method	AAT/GAP
Start	2803	End	2957
GI	LIB3431-029-P1-N1-A3	Score	294
Exons	2803..2957		
GI Descrip.	'4585992/gb|AAD25628.1|AC005287_30 6.0e-15 (AC005287) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	57671	Seq. ID	OJ000320_30.0419.C26
Gene No.	120663	Strand	+
Start	63	End	726
Name	OJ000320_30.0419.C26.o1.gs	Method	GENSCAN
Start	63	End	726
GI	none	Score	.64
Exons	63..267, 345..490, 542..726		

Seq. No.	57671	Seq. ID	OJ000320_30.0419.C26
Gene No.	120664	Strand	-
Start	1	End	2340
Name	OJ000320_30.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	2340
GI	4185136	Score	186
Exons	1..49, 922..1793, 2293..2340		
GI Descrip.	(AC005724) putative trehalose-6-phosphate synthase [Arabidopsis thaliana]		

Seq. No.	57671	Seq. ID	OJ000320_30.0419.C26
Gene No.	120664	Strand	-
Start	1	End	2340
Name	OJ000320_30.0419.C26.o1.gp	Method	AAT/GAP
Start	5	End	429
GI	none	Score	817
Exons	5..429		

Seq. No.	57671	Seq. ID	OJ000320_30.0419.C26
Gene No.	120664	Strand	-
Start	1	End	2340
Name	OJ000320_30.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	923	End	1293
GI	none	Score	44
Exons	923..964, 930..962, 990..1079, 992..1078, 997..1080, 1000..1080, 1082..1222, 1086..1259, 1087..1260, 1087..1293		

Seq. No.	57672	Seq. ID	OJ000320_30.0419.C27
Gene No.	120665	Strand	+
Start	1	End	2795
Name	OJ000320_30.0419.C27.o2.np	Method	AAT/NAP
Start	1	End	2795
GI	133416	Score	162
Exons	1..59, 2557..2795		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA CHAIN gi|66970|pir||RNRZB DNA-directed RNA polymerase (EC 2.7.7.6) beta chain - rice		

chloroplast gi|11971|emb|CAA33986| (X15901) RNA polymerase beta subunit [Oryza sativa]

Seq. No.	57672	Seq. ID	OJ000320_30.0419.C27
Gene No.	120665	Strand	+
Start	1	End	2795
Name	OJ000320_30.0419.C27.o1.gs	Method	GENSCAN
Start	559	End	1008
GI	none	Score	.43
Exons	559..1008		

Seq. No.	57672	Seq. ID	OJ000320_30.0419.C27
Gene No.	120666	Strand	-
Start	950	End	2384
Name	OJ000320_30.0419.C27.o1.np	Method	AAT/NAP
Start	950	End	2384
GI	6815052	Score	42
Exons	950..1066, 2224..2384		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	57672	Seq. ID	OJ000320_30.0419.C27
Gene No.	120666	Strand	-
Start	950	End	2384
Name	OJ000320_30.0419.C27.o2.gs	Method	GENSCAN
Start	1854	End	2141
GI	none	Score	.86
Exons	1854..2141		

Seq. No.	57673	Seq. ID	OJ000320_30.0419.C28
Gene No.	120667	Strand	+
Start	335	End	607
Name	OJ000320_30.0419.C28.o1.gs	Method	GENSCAN
Start	335	End	607
GI	none	Score	.89
Exons	335..607		

Seq. No.	57673	Seq. ID	OJ000320_30.0419.C28
Gene No.	120668	Strand	-
Start	2844	End	2969
Name	OJ000320_30.0419.C28.o2.gs	Method	GENSCAN
Start	2844	End	2969
GI	none	Score	.51
Exons	2844..2969		

Seq. No.	57674	Seq. ID	OJ000320_30.0419.C29
Gene No.	120669	Strand	-
Start	294	End	1584
Name	OJ000320_30.0419.C29.o1.gs	Method	GENSCAN
Start	294	End	1584
GI	none	Score	.77
Exons	294..467, 564..719, 1215..1334, 1459..1584		

Seq. No.	57674	Seq. ID	OJ000320_30.0419.C29
Gene No.	120669	Strand	-
Start	294	End	1584
Name	OJ000320_30.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	612	End	1572

GI	none	Score	120
Exons	612..719, 613..720, 629..724, 633..719, 1206..1334, 1209..1334, 1213..1335, 1216..1335, 1456..1572, 1457..1570		

Seq. No.	57674	Seq. ID	OJ000320_30.0419.C29
Gene No.	120669	Strand	-
Start	294	End	1584
Name	OJ000320_30.0419.C29.o1.np	Method	AAT/NAP
Start	1139	End	1571
GI	7160671	Score	257
Exons	1139..1334, 1459..1571		
GI Descrip.	(AJ252122) endoribonuclease E [Arabidopsis thaliana]		

Seq. No.	57675	Seq. ID	OJ000320_30.0419.C30
Gene No.	120670	Strand	-
Start	1	End	1909
Name	OJ000320_30.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	1909
GI	7160671	Score	272
Exons	1..38, 863..1014, 1503..1629, 1859..1909		
GI Descrip.	(AJ252122) endoribonuclease E [Arabidopsis thaliana]		

Seq. No.	57675	Seq. ID	OJ000320_30.0419.C30
Gene No.	120670	Strand	-
Start	1	End	1909
Name	OJ000320_30.0419.C30.o1.gs	Method	GENSCAN
Start	254	End	1627
GI	none	Score	.9
Exons	254..334, 867..1014, 1503..1627		

Seq. No.	57676	Seq. ID	OJ000320_30.0419.C31
Gene No.	120671	Strand	-
Start	1	End	842
Name	OJ000320_30.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	842
GI	7160671	Score	122
Exons	1..28, 453..672, 805..842		
GI Descrip.	(AJ252122) endoribonuclease E [Arabidopsis thaliana]		

Seq. No.	57676	Seq. ID	OJ000320_30.0419.C31
Gene No.	120671	Strand	-
Start	1	End	842
Name	OJ000320_30.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	449	End	750
GI	none	Score	283
Exons	449..661, 453..701, 453..695, 454..711, 700..750		

Seq. No.	57676	Seq. ID	OJ000320_30.0419.C31
Gene No.	120671	Strand	-
Start	1	End	842
Name	OJ000320_30.0419.C31.o1.gs	Method	GENSCAN
Start	457	End	795
GI	none	Score	.53
Exons	457..795		

Seq. No.	57677	Seq. ID	OJ000320_30.0419.C32
Gene No.	120672	Strand	-

Start	1	End	6622
Name	OJ000320_30.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	2723
GI	6175185	Score	160
Exons	1..127, 723..854, 2551..2723		
GI Descrip.	(AC011437) ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	57677	Seq. ID	OJ000320_30.0419.C32
Gene No.	120672	Strand	-
Start	1	End	6622
Name	OJ000320_30.0419.C32.o1.gs	Method	GENSCAN
Start	23	End	1548
GI	none	Score	.42
Exons	23..127, 723..854, 1473..1548		

Seq. No.	57677	Seq. ID	OJ000320_30.0419.C32
Gene No.	120672	Strand	-
Start	1	End	6622
Name	OJ000320_30.0419.C32.o2.gs	Method	GENSCAN
Start	1710	End	6622
GI	none	Score	.62
Exons	1710..1915, 2551..2739, 2824..2951, 3045..3149, 3654..3732, 3896..4180, 6499..6622		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120673	Strand	+
Start	2788	End	9836
Name	OJ000320_30.0419.C33.o2.np	Method	AAT/NAP
Start	2788	End	9836
GI	6063554	Score	129
Exons	2788..2862, 9664..9836		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120673	Strand	+
Start	2788	End	9836
Name	OJ000320_30.0419.C33.o1.np	Method	AAT/NAP
Start	4793	End	8378
GI	6691193	Score	2068
Exons	4793..6952, 8360..8378		
GI Descrip.	(AC007534) F7F22.17 [Arabidopsis thaliana]		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120674	Strand	+
Start	11009	End	11800
Name	OJ000320_30.0419.C33.o3.np	Method	AAT/NAP
Start	11009	End	11800
GI	4512231	Score	1259
Exons	11009..11800		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120674	Strand	+
Start	11009	End	11800
Name	OJ000320_30.0419.C33.o4.gs	Method	GENSCAN

Start	11009	End	11730
GI	none	Score	.81
Exons	11009..11730		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o5.tw	Method	TBLASTX:Wheat
Start	3481	End	3834
GI	none	Score	201
Exons	3481..3834		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	5008	End	5433
GI	none	Score	382
Exons	5008..5433, 5034..5273, 5305..5421		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o2.tw	Method	TBLASTX:Wheat
Start	5008	End	5412
GI	none	Score	414
Exons	5008..5412, 5025..5303, 5104..5382		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	5296	End	5658
GI	none	Score	215
Exons	5296..5658		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	5509	End	5940
GI	none	Score	543
Exons	5509..5940, 5517..5909, 5530..5916		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	5674	End	6222
GI	none	Score	292
Exons	5674..6087, 5829..5918, 5976..6086, 6064..6222		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o3.ts	Method	TBLASTX:Soybean
Start	5800	End	6135

GI	none	Score	72
Exons	5800..5865, 5865..6134, 5866..6135, 5926..6087		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o3.tw	Method	TBLASTX:Wheat
Start	5940	End	6246
GI	none	Score	101
Exons	5940..6131, 5942..6214, 5944..6246, 6152..6214, 6192..6236		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o2.ts	Method	TBLASTX:Soybean
Start	6520	End	6874
GI	none	Score	81
Exons	6520..6561, 6521..6562, 6559..6873, 6560..6874		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o4.tw	Method	TBLASTX:Wheat
Start	6521	End	6952
GI	none	Score	358
Exons	6521..6952, 6526..6879		

Seq. No.	57678	Seq. ID	OJ000320_30.0419.C33
Gene No.	120675	Strand	-
Start	8455	End	9581
Name	OJ000320_30.0419.C33.o3.gs	Method	GENSCAN
Start	8455	End	9581
GI	none	Score	.97
Exons	8455..8788, 9568..9581		

Seq. No.	57679	Seq. ID	OJ000320_31.0419.C1
Gene No.	120676	Strand	-
Start	129	End	2195
Name	OJ000320_31.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	120	End	1934
GI	none	Score	42
Exons	120..203, 137..211, 138..203, 141..290, 197..289, 232..291, 292..333, 292..333, 293..334, 409..507, 410..493, 1464..1553, 1476..1553, 1478..1558, 1478..1555, 1640..1699, 1642..1698, 1644..1715, 1644..1712, 1756..1929, 1779..1931, 1779..1934		

Seq. No.	57679	Seq. ID	OJ000320_31.0419.C1
Gene No.	120676	Strand	-
Start	129	End	2195
Name	OJ000320_31.0419.C1.o1.gs	Method	GENSCAN
Start	129	End	1705
GI	none	Score	.86
Exons	129..218, 409..492, 1478..1552, 1703..1705		

Seq. No.	57679	Seq. ID	OJ000320_31.0419.C1
Gene No.	120676	Strand	-
Start	129	End	2195

Name	OJ000320_31.0419.C1.o1.gp	Method	AAT/GAP
Start	182	End	1930
GI	23829_1.R1084	Score	909
Exons	182..332, 409..492, 1478..1552, 1645..1698, 1782..1930		
GI Descrip.	'4519589/dbj|AB017542.1|AB017542 5.0e-29 Oryza sativa tranposable elemet RMu2-IR36 DNA, complete sequence'		

Seq. No.	57679	Seq. ID	OJ000320_31.0419.C1
Gene No.	120676	Strand	-
Start	129	End	2195
Name	OJ000320_31.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	229	End	1934
GI	none	Score	129
Exons	229..333, 231..293, 409..507, 410..493, 1476..1553, 1476..1553, 1478..1555, 1640..1699, 1642..1701, 1642..1698, 1644..1700, 1765..1929, 1768..1848, 1779..1934, 1785..1931		

Seq. No.	57679	Seq. ID	OJ000320_31.0419.C1
Gene No.	120676	Strand	-
Start	129	End	2195
Name	OJ000320_31.0419.C1.o1.np	Method	AAT/NAP
Start	234	End	2195
GI	6979325	Score	662
Exons	234..332, 409..492, 1478..1552, 1645..1698, 1782..1930, 2174..2195		
GI Descrip.	(AF172282) putative phosphatidylinositol 4-kinase [Oryza sativa]		

Seq. No.	57679	Seq. ID	OJ000320_31.0419.C1
Gene No.	120676	Strand	-
Start	129	End	2195
Name	OJ000320_31.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	409	End	1933
GI	none	Score	83
Exons	409..507, 410..493, 1476..1553, 1476..1553, 1477..1554, 1478..1555, 1642..1698, 1643..1699, 1643..1699, 1644..1709, 1768..1848, 1779..1931, 1781..1933, 1785..1931		

Seq. No.	57680	Seq. ID	OJ000320_31.0419.C2
Gene No.	120677	Strand	-
Start	1	End	2065
Name	OJ000320_31.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	2065
GI	6815109	Score	171
Exons	1..41, 1885..2065		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	57680	Seq. ID	OJ000320_31.0419.C2
Gene No.	120677	Strand	-
Start	1	End	2065
Name	OJ000320_31.0419.C2.o1.gs	Method	GENSCAN
Start	1428	End	1609
GI	none	Score	.46
Exons	1428..1609		

Seq. No.	57681	Seq. ID	OJ000320_31.0419.C3
Gene No.	120678	Strand	-
Start	2530	End	2903

Name	OJ000320_31.0419.C3.o1.gp	Method	AAT/GAP
Start	1855	End	2424
GI	3761258	Score	782
Exons	1855..2278, 2349..2424		
GI Descrip.	4519589/dbj|AB017542.1|AB017542 5.0e-29 Oryza sativa tranposable elemet RMu2-IR36 DNA, complete sequence		

Seq. No.	57681	Seq. ID	OJ000320_31.0419.C3
Gene No.	120678	Strand	-
Start	2530	End	2903
Name	OJ000320_31.0419.C3.o2.gs	Method	GENSCAN
Start	2530	End	2903
GI	none	Score	.5
Exons	2530..2563, 2591..2636, 2678..2903		

Seq. No.	57682	Seq. ID	OJ000320_31.0419.C5
Gene No.	120679	Strand	+
Start	1	End	775
Name	OJ000320_31.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	775
GI	6598711	Score	227
Exons	1..775		
GI Descrip.	(AC007197) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	57682	Seq. ID	OJ000320_31.0419.C5
Gene No.	120679	Strand	+
Start	1	End	775
Name	OJ000320_31.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	80	End	439
GI	none	Score	154
Exons	80..379, 119..427, 145..336, 263..439, 323..424		

Seq. No.	57683	Seq. ID	OJ000320_31.0419.C8
Gene No.	120680	Strand	+
Start	422	End	2832
Name	OJ000320_31.0419.C8.o1.gs	Method	GENSCAN
Start	422	End	2832
GI	none	Score	.6
Exons	422..546, 1832..1883, 2635..2832		

Seq. No.	57683	Seq. ID	OJ000320_31.0419.C8
Gene No.	120681	Strand	-
Start	3648	End	6647
Name	OJ000320_31.0419.C8.o2.gs	Method	GENSCAN
Start	3648	End	6564
GI	none	Score	.61
Exons	3648..4091, 4097..4712, 6449..6564		

Seq. No.	57683	Seq. ID	OJ000320_31.0419.C8
Gene No.	120681	Strand	-
Start	3648	End	6647
Name	OJ000320_31.0419.C8.o1.np	Method	AAT/NAP
Start	3651	End	6647
GI	6979324	Score	2153
Exons	3651..4712, 6449..6647		
GI Descrip.	(AF172282) hypothetical protein, similar to H. pilory nifS like		

protein [Oryza sativa]

Seq. No.	57683	Seq. ID	OJ000320_31.0419.C8
Gene No.	120681	Strand	-
Start	3648	End	6647
Name	OJ000320_31.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	3927	End	4264
GI	none	Score	38
Exons	3927..3974, 3934..3972, 4019..4264, 4047..4235		

Seq. No.	57684	Seq. ID	OJ000320_31.0419.C9
Gene No.	120682	Strand	+
Start	2141	End	5578
Name	OJ000320_31.0419.C9.o2.np	Method	AAT/NAP
Start	2115	End	5578
GI	5295951	Score	100
Exons	2115..2339, 5555..5578		
GI Descrip.	(AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]		

Seq. No.	57684	Seq. ID	OJ000320_31.0419.C9
Gene No.	120682	Strand	+
Start	2141	End	5578
Name	OJ000320_31.0419.C9.o2.gs	Method	GENSCAN
Start	2141	End	4158
GI	none	Score	.51
Exons	2141..2170, 2225..2280, 3198..3405, 4096..4158		

Seq. No.	57684	Seq. ID	OJ000320_31.0419.C9
Gene No.	120683	Strand	-
Start	1	End	594
Name	OJ000320_31.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	594
GI	6979324	Score	969
Exons	1..594		
GI Descrip.	(AF172282) hypothetical protein, similar to H. pilory nifS like protein [Oryza sativa]		

Seq. No.	57684	Seq. ID	OJ000320_31.0419.C9
Gene No.	120683	Strand	-
Start	1	End	594
Name	OJ000320_31.0419.C9.o1.gs	Method	GENSCAN
Start	121	End	594
GI	none	Score	.98
Exons	121..594		

Seq. No.	57684	Seq. ID	OJ000320_31.0419.C9
Gene No.	120684	Strand	-
Start	4489	End	6325
Name	OJ000320_31.0419.C9.o1.gp	Method	AAT/GAP
Start	4489	End	6325
GI	none	Score	823
Exons	4489..4817, 6210..6325		

Seq. No.	57684	Seq. ID	OJ000320_31.0419.C9
Gene No.	120685	Strand	-
Start	10759	End	10928

Name	OJ000320_31.0419.C9.o4.gs	Method	GENSCAN
Start	10759	End	10928
GI	none	Score	.98
Exons	10759..10928		

Seq. No.	57685	Seq. ID	OJ000320_31.0419.C10
Gene No.	120686	Strand	-
Start	1	End	4506
Name	OJ000320_31.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	3049
GI	4680204	Score	921
Exons	1..57, 144..317, 422..1518, 1614..3049		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	57685	Seq. ID	OJ000320_31.0419.C10
Gene No.	120686	Strand	-
Start	1	End	4506
Name	OJ000320_31.0419.C10.o1.gs	Method	GENSCAN
Start	109	End	4506
GI	none	Score	.6
Exons	109..317, 422..594, 673..1107, 1109..1251, 1377..1518, 1614..1773, 1779..2641, 2660..3034, 4291..4506		

Seq. No.	57685	Seq. ID	OJ000320_31.0419.C10
Gene No.	120686	Strand	-
Start	1	End	4506
Name	OJ000320_31.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	1306	End	2002
GI	none	Score	69
Exons	1306..1524, 1608..1682, 1922..2002		

Seq. No.	57685	Seq. ID	OJ000320_31.0419.C10
Gene No.	120686	Strand	-
Start	1	End	4506
Name	OJ000320_31.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	2003	End	2406
GI	none	Score	70
Exons	2003..2173, 2004..2174, 2163..2303, 2168..2404, 2210..2404, 2266..2406		

Seq. No.	57686	Seq. ID	OJ000320_31.0419.C11
Gene No.	120687	Strand	+
Start	757	End	1201
Name	OJ000320_31.0419.C11.o1.gp	Method	AAT/GAP
Start	757	End	1201
GI	LIB3431-028-P1-N1-A10	Score	754
Exons	757..824, 852..1201		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	57686	Seq. ID	OJ000320_31.0419.C11
Gene No.	120688	Strand	-
Start	820	End	2862
Name	OJ000320_31.0419.C11.o1.gs	Method	GENSCAN
Start	820	End	2733
GI	none	Score	.51
Exons	820..1548, 1663..2733		

Seq. No.	57686	Seq. ID	OJ000320_31.0419.C11
Gene No.	120688	Strand	-
Start	820	End	2862
Name	OJ000320_31.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	895	End	2212
GI	none	Score	104
Exons	895..987, 976..1056, 1061..1141, 1063..1179, 1070..1210, 1081..1209, 1157..1252, 1189..1248, 1255..1296, 1255..1299, 1260..1301, 1294..2211, 1309..1626, 1487..2212, 1583..2212		

Seq. No.	57686	Seq. ID	OJ000320_31.0419.C11
Gene No.	120688	Strand	-
Start	820	End	2862
Name	OJ000320_31.0419.C11.o1.np	Method	AAT/NAP
Start	1379	End	2862
GI	6742729	Score	2339
Exons	1379..2862		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	57686	Seq. ID	OJ000320_31.0419.C11
Gene No.	120688	Strand	-
Start	820	End	2862
Name	OJ000320_31.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	1477	End	1924
GI	none	Score	87
Exons	1477..1626, 1477..1920, 1487..1924, 1583..1924		

Seq. No.	57686	Seq. ID	OJ000320_31.0419.C11
Gene No.	120688	Strand	-
Start	820	End	2862
Name	OJ000320_31.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1855	End	2169
GI	none	Score	144
Exons	1855..2169, 1883..2158		

Seq. No.	57686	Seq. ID	OJ000320_31.0419.C11
Gene No.	120688	Strand	-
Start	820	End	2862
Name	OJ000320_31.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	2227	End	2667
GI	none	Score	76
Exons	2227..2310, 2228..2302, 2236..2382, 2308..2547, 2365..2535, 2369..2548, 2522..2665, 2545..2667		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120689	Strand	+
Start	1035	End	1284
Name	OJ000320_31.0419.C12.o1.gs	Method	GENSCAN
Start	1035	End	1284
GI	none	Score	.58
Exons	1035..1140, 1270..1284		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120690	Strand	+
Start	11589	End	14792
Name	OJ000320_31.0419.C12.o4.gs	Method	GENSCAN

Start	11589	End	14792
GI	none	Score	.46
Exons	11589..11889, 12638..12705, 13372..13547, 13733..13898, 14679..14792		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120690	Strand	+
Start	11589	End	14792
Name	OJ000320_31.0419.C12.o2.gp	Method	AAT/GAP
Start	13017	End	13305
GI	1854336	Score	541
Exons	13017..13305		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120691	Strand	-
Start	2899	End	4336
Name	OJ000320_31.0419.C12.o1.gp	Method	AAT/GAP
Start	2531	End	3030
GI	none	Score	899
Exons	2531..3030		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120691	Strand	-
Start	2899	End	4336
Name	OJ000320_31.0419.C12.o2.gs	Method	GENSCAN
Start	2899	End	4336
GI	none	Score	.83
Exons	2899..3326, 3443..3605, 3806..3991, 4109..4336		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120691	Strand	-
Start	2899	End	4336
Name	OJ000320_31.0419.C12.o1.np	Method	AAT/NAP
Start	2902	End	4336
GI	6979323	Score	1609
Exons	2902..3326, 3443..3605, 3806..3991, 4109..4336		
GI Descrip.	(AF172282) putative peroxidase [Oryza sativa]		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120692	Strand	-
Start	5122	End	5645
Name	OJ000320_31.0419.C12.o3.gs	Method	GENSCAN
Start	5122	End	5645
GI	none	Score	.53
Exons	5122..5215, 5566..5645		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120693	Strand	-
Start	13208	End	13510
Name	OJ000320_31.0419.C12.o2.np	Method	AAT/NAP
Start	13208	End	13510
GI	6979322	Score	525
Exons	13208..13510		
GI Descrip.	(AF172282) unknown protein [Oryza sativa]		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120694	Strand	-

Start	15005	End	15267
Name	OJ000320_31.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	2893	End	3336
GI	none	Score	55
Exons	2893..2934, 2896..2934, 2897..2935, 2938..3336, 2941..2976, 2942..3331		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120694	Strand	-
Start	15005	End	15267
Name	OJ000320_31.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	2899	End	4258
GI	none	Score	69
Exons	2899..3186, 3095..3187, 3193..3252, 3250..3336, 3251..3349, 3444..3623, 3487..3600, 3776..3958, 3816..3929, 3965..3991, 4109..4258		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120694	Strand	-
Start	15005	End	15267
Name	OJ000320_31.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	3253	End	4252
GI	none	Score	103
Exons	3253..3336, 3444..3530, 3537..3605, 3794..3991, 3795..3992, 4109..4252		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120694	Strand	-
Start	15005	End	15267
Name	OJ000320_31.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	3810	End	4279
GI	none	Score	129
Exons	3810..3953, 3812..3955, 3905..3955, 3950..3985, 3950..3991, 3951..3992, 4109..4258, 4115..4156, 4116..4247, 4214..4279		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120694	Strand	-
Start	15005	End	15267
Name	OJ000320_31.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	3812	End	4249
GI	none	Score	87
Exons	3812..3955, 3950..3991, 4109..4249, 4110..4247		

Seq. No.	57687	Seq. ID	OJ000320_31.0419.C12
Gene No.	120694	Strand	-
Start	15005	End	15267
Name	OJ000320_31.0419.C12.o3.gp	Method	AAT/GAP
Start	15005	End	15267
GI	225_1.R1084	Score	498
Exons	15005..15267		
GI Descrip.	'2149018/gb|U70541|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120695	Strand	-
Start	1	End	2816

Name	OJ000320_31.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	2450
GI	6979321	Score	1285
Exons	1..175, 256..317, 399..474, 554..636, 722..1047, 1877..1923, 2021..2157, 2417..2450		
GI Descrip.	(AF172282) alcohol dehydrogenase 1 [Oryza sativa]		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120695	Strand	-
Start	1	End	2816
Name	OJ000320_31.0419.C13.o1.gp	Method	AAT/GAP
Start	80	End	2816
GI	225_1.R1084	Score	2261
Exons	80..175, 256..317, 399..474, 554..636, 722..1047, 1877..1923, 2021..2157, 2417..2816		
GI Descrip.	'2149018/gb|U70541|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120695	Strand	-
Start	1	End	2816
Name	OJ000320_31.0419.C13.o1.gs	Method	GENSCAN
Start	80	End	2089
GI	none	Score	.97
Exons	80..175, 256..317, 399..474, 554..636, 722..1047, 1877..1923, 2021..2089		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120696	Strand	-
Start	5691	End	5851
Name	OJ000320_31.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	80	End	2164
GI	none	Score	90
Exons	80..175, 87..161, 253..288, 254..286, 519..638, 548..637, 720..1046, 721..1047, 1868..1939, 1870..1923, 2006..2164, 2022..2096		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120696	Strand	-
Start	5691	End	5851
Name	OJ000320_31.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	80	End	2483
GI	none	Score	127
Exons	80..175, 81..161, 81..176, 157..177, 253..318, 253..318, 387..470, 395..436, 397..471, 548..637, 553..636, 555..644, 555..644, 719..1039, 720..1046, 721..1047, 745..1050, 1868..1939, 1870..1923, 1878..1949, 2003..2068, 2012..2164, 2022..2096, 2414..2482, 2415..2483		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120696	Strand	-
Start	5691	End	5851
Name	OJ000320_31.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	83	End	2164
GI	none	Score	64
Exons	83..175, 90..161, 245..313, 253..318, 376..471, 404..463,		

548..637, 552..644, 720..1046, 720..1046, 721..1047, 1868..1906, 1870..1911, 1995..2093, 2021..2164

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120696	Strand	-
Start	5691	End	5851
Name	OJ000320_31.0419.C13.o2.gp	Method	AAT/GAP
Start	3936	End	4291
GI	2309883	Score	466
Exons	3936..4291		
GI Descrip.	2149018/gb|U70541|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120696	Strand	-
Start	5691	End	5851
Name	OJ000320_31.0419.C13.o3.gp	Method	AAT/GAP
Start	5616	End	5728
GI	uC-osflcyp088b12b1	Score	149
Exons	5616..5728		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	57688	Seq. ID	OJ000320_31.0419.C13
Gene No.	120696	Strand	-
Start	5691	End	5851
Name	OJ000320_31.0419.C13.o2.gs	Method	GENSCAN
Start	5691	End	5851
GI	none	Score	.5
Exons	5691..5851		

Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120697	Strand	+
Start	1	End	3618
Name	OJ000320_31.0419.C14.o2.np	Method	AAT/NAP
Start	1	End	3618
GI	4680183	Score	119
Exons	1..40, 3529..3618		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120698	Strand	+
Start	3706	End	5112
Name	OJ000320_31.0419.C14.o3.np	Method	AAT/NAP
Start	3706	End	5112
GI	7248392	Score	159
Exons	3706..3802, 4451..4837, 4942..5112		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120698	Strand	+
Start	3706	End	5112
Name	OJ000320_31.0419.C14.o2.gp	Method	AAT/GAP
Start	4012	End	4092
GI	LIB3434-017-P1-K1-F5	Score	91
Exons	4012..4092		

GI Descrip.	'5257255/dbj|AP000364.1|AP000364 5.0e-20 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120699	Strand	-
Start	681	End	10903
Name	OJ000320_31.0419.C14.o1.gs	Method	GENSCAN
Start	681	End	10903
GI	none	Score	.59
Exons	681..721, 925..1028, 1724..1823, 2351..2473, 4490..4621, 4667..4750, 4841..4997, 5140..5476, 5523..5597, 7059..7394, 7476..7892, 8029..8222, 8558..9279, 10047..10358, 10423..10691, 10762..10903		
Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120699	Strand	-
Start	681	End	10903
Name	OJ000320_31.0419.C14.o1.np	Method	AAT/NAP
Start	1435	End	3496
GI	6721561	Score	147
Exons	1435..1538, 3406..3496		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120699	Strand	-
Start	681	End	10903
Name	OJ000320_31.0419.C14.o1.gp	Method	AAT/GAP
Start	2790	End	2901
GI	uC-osf1cyp088b12b1	Score	150
Exons	2790..2901		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120699	Strand	-
Start	681	End	10903
Name	OJ000320_31.0419.C14.o4.np	Method	AAT/NAP
Start	6946	End	10754
GI	6979320	Score	4145
Exons	6946..7394, 7476..7892, 8029..8222, 8558..9279, 10047..10358, 10423..10754		
GI Descrip.	(AF172282) hypothetical protein [Oryza sativa]		
Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14
Gene No.	120699	Strand	-
Start	681	End	10903
Name	OJ000320_31.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	7186	End	7713
GI	none	Score	57
Exons	7186..7263, 7301..7402, 7303..7395, 7513..7713, 7517..7618, 7664..7699		
Seq. No.	57689	Seq. ID	OJ000320_31.0419.C14

Gene No.	120699	Strand	-
Start	681	End	10903
Name	OJ000320_31.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	7268	End	7713
GI	none	Score	81
Exons	7268..7396, 7303..7395, 7462..7713		

Seq. No.	57690	Seq. ID	OJ000320_31.0419.C15
Gene No.	120700	Strand	-
Start	126	End	3184
Name	OJ000320_31.0419.C15.o1.gs	Method	GENSCAN
Start	126	End	3184
GI	none	Score	.75
Exons	126..236, 2767..3184		

Seq. No.	57690	Seq. ID	OJ000320_31.0419.C15
Gene No.	120700	Strand	-
Start	126	End	3184
Name	OJ000320_31.0419.C15.o1.gp	Method	AAT/GAP
Start	939	End	1012
GI	2312838	Score	74
Exons	939..1012		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	57691	Seq. ID	OJ000320_31.0419.C16
Gene No.	120701	Strand	+
Start	1030	End	3771
Name	OJ000320_31.0419.C16.o1.np	Method	AAT/NAP
Start	1030	End	3771
GI	6815097	Score	1661
Exons	1030..1898, 2388..2999, 3114..3771		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120702	Strand	-
Start	1	End	4872
Name	OJ000320_31.0419.C17.o1.gp	Method	AAT/GAP
Start	1	End	497
GI	10981_1.R1084	Score	949
Exons	1..497		
GI Descrip.	'4467359/emb|CAB37928| 4.0e-45 (AJ002685) Phosphatidylinositol 4-kinase [Arabidopsis thaliana]'		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120702	Strand	-
Start	1	End	4872
Name	OJ000320_31.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	4327
GI	6979325	Score	4485
Exons	1..487, 695..827, 1561..1609, 1715..1903, 2543..4327		
GI Descrip.	(AF172282) putative phosphatidylinositol 4-kinase [Oryza sativa]		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120702	Strand	-
Start	1	End	4872

Name	OJ000320_31.0419.C17.o1.gs	Method	GENSCAN
Start	7	End	4327
GI	none	Score	.98
Exons	7..487, 695..827, 1080..1116, 1715..1903, 2641..2714, 2773..4327		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120702	Strand	-
Start	1	End	4872
Name	OJ000320_31.0419.C17.o2.gp	Method	AAT/GAP
Start	3138	End	3449
GI	LIB3433-029-P1-K1-A3	Score	556
Exons	3138..3449		
GI Descrip.	'4467359/emb|CAB37928| 7.0e-10 (AJ002685) Phosphatidylinositol 4-kinase [Arabidopsis thaliana]'		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120702	Strand	-
Start	1	End	4872
Name	OJ000320_31.0419.C17.o2.np	Method	AAT/NAP
Start	3614	End	4872
GI	81286	Score	122
Exons	3614..3865, 4493..4546, 4633..4872		
GI Descrip.	extensin - Volvox carteri (fragment) gi|21992|emb|CAA46283| (X65165) extensin [Volvox carteri]		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120702	Strand	-
Start	1	End	4872
Name	OJ000320_31.0419.C17.o3.gp	Method	AAT/GAP
Start	4308	End	4765
GI	2428168	Score	812
Exons	4308..4765		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	7	End	4286
GI	none	Score	105
Exons	7..135, 8..133, 10..144, 250..468, 250..483, 377..481, 695..829, 697..828, 741..830, 1551..1610, 1560..1610, 1592..1618, 1715..1855, 1715..1891, 1716..1865, 1720..1878, 2522..2752, 2597..2656, 2600..2743, 2741..2890, 2804..2881, 2804..2866, 2870..2956, 2903..2980, 3035..3073, 3056..3181, 3077..3175, 3107..3217, 3125..3199, 3173..3370, 3188..3319, 3239..3388, 3242..3325, 3248..3382, 3317..3388, 3329..3415, 3331..3471, 3458..3523, 3458..3577, 3463..3564, 3487..3552, 3518..3649, 3845..3913, 3857..3940, 3938..4204, 3959..4219, 3960..4220, 4262..4282, 4263..4286		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	7	End	403
GI	none	Score	91
Exons	7..96, 7..144, 11..136, 250..402, 251..403		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	403	End	1834
GI	none	Score	173
Exons	403..489, 688..828, 690..830, 692..829, 1559..1612, 1560..1619, 1715..1834, 1716..1829		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	722	End	1829
GI	none	Score	170
Exons	722..829, 727..828, 1559..1612, 1559..1612, 1715..1828, 1716..1829		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	2522	End	2764
GI	none	Score	51
Exons	2522..2653, 2543..2671, 2651..2764, 2679..2738		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	2557	End	3288
GI	none	Score	152
Exons	2557..2742, 2558..2842, 2564..2842, 2876..2941, 2915..2950, 3065..3172, 3125..3175, 3167..3286, 3220..3288		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	4029	End	4226
GI	none	Score	291
Exons	4029..4226, 4031..4225		

Seq. No.	57692	Seq. ID	OJ000320_31.0419.C17
Gene No.	120703	Strand	-
Start	6003	End	7719
Name	OJ000320_31.0419.C17.o2.gs	Method	GENSCAN
Start	6003	End	7719
GI	none	Score	.71
Exons	6003..6046, 6785..6886, 7231..7278, 7593..7719		

Seq. No.	57693	Seq. ID	OJ000320_31.0419.C18
Gene No.	120704	Strand	+
Start	546	End	786
Name	OJ000320_31.0419.C18.o1.gs	Method	GENSCAN
Start	546	End	786

GI	none	Score	.61
Exons	546..786		

Seq. No.	57694	Seq. ID	OJ000320_31.0419.C19
Gene No.	120705	Strand	+
Start	120	End	10635
Name	OJ000320_31.0419.C19.o1.gs	Method	GENSCAN
Start	120	End	7773
GI	none	Score	.5
Exons	120..416, 4152..4416, 4624..5095, 5346..5602, 5814..5987, 7736..7773		

Seq. No.	57694	Seq. ID	OJ000320_31.0419.C19
Gene No.	120705	Strand	+
Start	120	End	10635
Name	OJ000320_31.0419.C19.o1.np	Method	AAT/NAP
Start	4052	End	10635
GI	7339707	Score	112
Exons	4052..4334, 4762..5095, 7878..7955, 10606..10635		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	57694	Seq. ID	OJ000320_31.0419.C19
Gene No.	120706	Strand	-
Start	10033	End	10385
Name	OJ000320_31.0419.C19.o2.gs	Method	GENSCAN
Start	10033	End	10385
GI	none	Score	.54
Exons	10033..10137, 10365..10385		

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120707	Strand	+
Start	1375	End	10785
Name	OJ000320_31.0419.C20.o1.gs	Method	GENSCAN
Start	1375	End	10785
GI	none	Score	.53
Exons	1375..1457, 1502..1680, 1761..1836, 2006..2177, 3785..4197, 4515..4673, 4812..5089, 7104..7240, 7499..7545, 8094..8422, 9018..9100, 9224..9299, 9541..9602, 10101..10183, 10249..10472, 10604..10785		

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120707	Strand	+
Start	1375	End	10785
Name	OJ000320_31.0419.C20.o1.np	Method	AAT/NAP
Start	1442	End	4079
GI	6539588	Score	158
Exons	1442..1462, 1944..2199, 3588..3641, 4038..4079		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120707	Strand	+
Start	1375	End	10785
Name	OJ000320_31.0419.C20.o1.gp	Method	AAT/GAP
Start	6767	End	7551
GI	uC-osflM202092d01b1	Score	468
Exons	6767..6854, 7104..7240, 7499..7551		
GI Descrip.	'113362/sp|P14219|ADH1_PENAM 2.0e-39 ALCOHOL DEHYDROGENASE 1		

(SLOW-ALLELE) >gi_65901_pir__DEILSP alcohol dehydrogenase (EC 1.1.1.1) 1-S - pearl millet >gi_20409_emb_CAA34547_ (X16547) alcohol dehydrogenase (AA 1-379) [Pennisetum americanum]'

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120707	Strand	+
Start	1375	End	10785
Name	OJ000320_31.0419.C20.o2.gp	Method	AAT/GAP
Start	8266	End	10721
GI	16605_1.R1084	Score	1368
Exons	8266..8422, 9018..9100, 9224..9298, 9539..9602, 10101..10196, 10311..10472, 10604..10721		
GI Descrip.	'113357/sp|P05336|ADH1_HORVU 2.0e-87 ALCOHOL DEHYDROGENASE 1 >gi_82347_pir__S01893 alcohol dehydrogenase (EC 1.1.1.1) 1 - barley >gi_18875_emb_CAA30600_ (X07774) alcohol dehydrogenase 1 (AA 1-379) [Hordeum vulgare] >gi_226107_prf__1410317A alcohol dehydrogenase 1 [Hordeum vulgare var. distichum]'		

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120708	Strand	+
Start	14661	End	16276
Name	OJ000320_31.0419.C20.o2.gs	Method	GENSCAN
Start	14661	End	16276
GI	none	Score	.52
Exons	14661..14858, 16145..16276		

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120709	Strand	+
Start	18433	End	21755
Name	OJ000320_31.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	6969	End	21406
GI	none	Score	240
Exons	6969..7025, 7102..7239, 7103..7240, 7184..7240, 7496..7546, 7498..7554, 8067..8285, 8095..8286, 8095..8340, 8278..8421, 8286..8423, 8286..8423, 8287..8427, 9007..9108, 9008..9109, 9223..9303, 9224..9295, 9533..9595, 9552..9605, 10098..10196, 10100..10195, 10314..10340, 10315..10335, 10358..10474, 10359..10472, 10432..10476, 10604..10714, 10606..10716, 10618..10716, 18763..18810, 18778..18810, 18909..19046, 18910..19047, 19147..19212, 19154..19213, 19807..20142, 19815..20141, 20240..20335, 20243..20344, 20251..20355, 20437..20511, 20438..20524, 20438..20524, 20606..20671, 20607..20672, 20607..20672, 20749..20799, 20766..20804, 20803..20865, 20808..20864, 20809..20865, 20995..21159, 20996..21157, 21290..21406, 21291..21404		

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120709	Strand	+
Start	18433	End	21755
Name	OJ000320_31.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	7102	End	21412
GI	none	Score	215
Exons	7102..7239, 7103..7240, 7111..7242, 7496..7546, 7498..7554, 8092..8277, 8094..8285, 8095..8286, 8286..8423, 8287..8427, 9008..9109, 9010..9108, 10098..10196, 10100..10201, 10359..10472, 10361..10474, 10595..10711, 10618..10710, 18909..19046, 18910..19047, 19147..19212, 19154..19213,		

19807..20142, 19807..20136, 19938..20141, 20251..20352,
20252..20365, 20802..20864, 20803..20865, 20834..20866,
20995..21159, 20996..21157, 21291..21401, 21293..21412

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120709	Strand	+
Start	18433	End	21755
Name	OJ000320_31.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	7102	End	21412
GI	none	Score	194

Exons 7102..7239, 7103..7240, 7274..7291, 7496..7546, 7498..7554,
8092..8277, 8094..8285, 8095..8286, 8278..8424, 8286..8423,
8298..8426, 9010..9108, 9017..9109, 9223..9303, 9224..9295,
9533..9595, 9552..9605, 10098..10196, 10100..10186,
10358..10459, 10359..10454, 10424..10474, 10443..10472,
10595..10720, 10597..10716, 18779..18811, 18779..18817,
18909..19046, 18910..19047, 19154..19213, 19159..19212,
19807..20142, 19815..19886, 19817..19936, 19941..20141,
20210..20341, 20245..20355, 20252..20344, 20437..20511,
20438..20524, 20606..20671, 20607..20672, 20766..20804,
20803..20865, 20995..21135, 20996..21139, 21291..21410,
21293..21412

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120709	Strand	+
Start	18433	End	21755
Name	OJ000320_31.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	13464	End	13611
GI	none	Score	189

Exons 13464..13610, 13480..13611, 13482..13610

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120709	Strand	+
Start	18433	End	21755
Name	OJ000320_31.0419.C20.o3.gs	Method	GENSCAN
Start	18433	End	21410
GI	none	Score	.7

Exons 18433..18601, 18746..19047, 19160..19206, 19815..20140,
20253..20335, 20438..20513, 20608..20669, 20996..21157,
21294..21410

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120709	Strand	+
Start	18433	End	21755
Name	OJ000320_31.0419.C20.o3.gp	Method	AAT/GAP
Start	18599	End	21755
GI	225_2.R1084	Score	3131

Exons 18599..18812, 18911..19047, 19160..19206, 19815..20140,
20253..20335, 20438..20513, 20608..20669, 20769..20865,
20996..21157, 21294..21755

GI Descrip. '113377/sp|P04707|ADH2_MAIZE 0.0e+00 ALCOHOL DEHYDROGENASE 2
>gi_82671_pir__A23084 alcohol dehydrogenase (EC 1.1.1.1) 2 -
maize >gi_22137_emb_CAA26001_ (X01965) Adh2-N (aa 1-379) [Zea
mays]'

Seq. No.	57695	Seq. ID	OJ000320_31.0419.C20
Gene No.	120709	Strand	+

Start	18433	End	21755
Name	OJ000320_31.0419.C20.o2.np	Method	AAT/NAP
Start	18779	End	21407
GI	6979319	Score	1723
Exons	18779..18812, 18911..19047, 19160..19206, 19815..20140, 20253..20335, 20438..20513, 20608..20669, 20769..20865, 20996..21157, 21294..21407		
GI Descrip.	(AF172282) alcohol dehydrogenase 2 [Oryza sativa]		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1
Gene No.	120710	Strand	+
Start	1	End	2476
Name	OJ000320_32.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	2009
GI	2443887	Score	710
Exons	1..198, 669..851, 1142..1657, 1747..2009		
GI Descrip.	(AC002294) Similar to transcription factor gb|Z46606|1658307 and others [Arabidopsis thaliana]		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1
Gene No.	120710	Strand	+
Start	1	End	2476
Name	OJ000320_32.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	51	End	890
GI	none	Score	145
Exons	51..209, 70..198, 652..756, 665..760, 666..890, 666..830, 668..838		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1
Gene No.	120710	Strand	+
Start	1	End	2476
Name	OJ000320_32.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	66	End	2476
GI	none	Score	82
Exons	66..203, 67..204, 67..198, 672..890, 675..878, 808..891, 1133..1252, 1134..1325, 1150..1326, 1151..1354, 1399..1659, 1407..1658, 1408..1659, 1412..1660, 1415..1708, 1744..1956, 1745..1888, 1746..1958, 2314..2475, 2357..2476		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1
Gene No.	120710	Strand	+
Start	1	End	2476
Name	OJ000320_32.0419.C1.o1.gs	Method	GENSCAN
Start	68	End	2476
GI	none	Score	89
Exons	68..198, 669..890, 1151..1657, 1747..1956, 2372..2476		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1
Gene No.	120710	Strand	+
Start	1	End	2476
Name	OJ000320_32.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	1143	End	1860
GI	none	Score	79
Exons	1143..1232, 1147..1197, 1147..1290, 1148..1324, 1508..1660, 1510..1659, 1732..1860, 1742..1837, 1746..1853, 1783..1857		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1

Gene No.	120710	Strand	+
Start	1	End	2476
Name	OJ000320_32.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	1744	End	2476
GI	none	Score	322
Exons	1744..1956, 1746..1952, 1780..1959, 2356..2466, 2357..2476		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1
Gene No.	120711	Strand	
Start	3370	End	3747
Name	OJ000320_32.0419.C1.o3.ts	Method	TBLASTX:Soybean
Start	3370	End	3720
GI	none	Score	57
Exons	3370..3564, 3655..3720		

Seq. No.	57696	Seq. ID	OJ000320_32.0419.C1
Gene No.	120711	Strand	
Start	3370	End	3747
Name	OJ000320_32.0419.C1.o2.tc	Method	TBLASTX:Cress
Start	3376	End	3747
GI	none	Score	53
Exons	3376..3564, 3655..3747		

Seq. No.	57697	Seq. ID	OJ000320_32.0419.C2
Gene No.	120712	Strand	+
Start	122	End	2688
Name	OJ000320_32.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	113	End	318
GI	none	Score	184
Exons	113..247, 120..317, 121..297, 121..318		

Seq. No.	57697	Seq. ID	OJ000320_32.0419.C2
Gene No.	120712	Strand	+
Start	122	End	2688
Name	OJ000320_32.0419.C2.o1.gs	Method	GENSCAN
Start	122	End	2688
GI	none	Score	.78
Exons	122..426, 678..790, 954..985, 1352..1482, 2483..2688		

Seq. No.	57697	Seq. ID	OJ000320_32.0419.C2
Gene No.	120712	Strand	+
Start	122	End	2688
Name	OJ000320_32.0419.C2.o1.gp	Method	AAT/GAP
Start	235	End	1392
GI	none	Score	651
Exons	235..426, 678..790, 954..985, 1352..1392		

Seq. No.	57697	Seq. ID	OJ000320_32.0419.C2
Gene No.	120712	Strand	+
Start	122	End	2688
Name	OJ000320_32.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	2116	End	2585
GI	none	Score	102
Exons	2116..2181, 2118..2183, 2120..2182, 2270..2344, 2273..2356, 2274..2357, 2275..2358, 2278..2406, 2388..2441, 2388..2444, 2460..2585, 2471..2581		

Seq. No.	57698	Seq. ID	OJ000320_32.0419.C5
Gene No.	120713	Strand	-
Start	1	End	1559
Name	OJ000320_32.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1388
GI	4680179	Score	651
Exons	1..229, 332..1388		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57698	Seq. ID	OJ000320_32.0419.C5
Gene No.	120713	Strand	-
Start	1	End	1559
Name	OJ000320_32.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	6	End	380
GI	none	Score	95
Exons	6..209, 40..150, 327..380		

Seq. No.	57698	Seq. ID	OJ000320_32.0419.C5
Gene No.	120713	Strand	-
Start	1	End	1559
Name	OJ000320_32.0419.C5.o1.gs	Method	GENSCAN
Start	143	End	1559
GI	none	Score	.93
Exons	143..1559		

Seq. No.	57698	Seq. ID	OJ000320_32.0419.C5
Gene No.	120713	Strand	-
Start	1	End	1559
Name	OJ000320_32.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	510	End	911
GI	none	Score	241
Exons	510..911		

Seq. No.	57698	Seq. ID	OJ000320_32.0419.C5
Gene No.	120713	Strand	-
Start	1	End	1559
Name	OJ000320_32.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	792	End	1157
GI	none	Score	59
Exons	792..1157, 1051..1152		

Seq. No.	57699	Seq. ID	OJ000320_32.0419.C6
Gene No.	120714	Strand	-
Start	1	End	2570
Name	OJ000320_32.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	2570
GI	1170619	Score	1014
Exons	1..102, 390..592, 670..828, 1181..1290, 1400..1541, 1680..1826, 1909..1983, 2059..2264, 2355..2570		
GI Descrip.	KINESIN-LIKE PROTEIN A gi|479594|pir||S34830 kinesin-related protein katA - Arabidopsis thaliana gi|303502|dbj|BAA01972| (D11371) kinesin-like motor protein heavy chain [Arabidopsis thaliana] gi|2911084|emb|CAA17546.1| (AL021960) kinesin-related protein katA [Arabidopsis thaliana]		

Seq. No.	57699	Seq. ID	OJ000320_32.0419.C6
Gene No.	120714	Strand	-

Start	1	End	2570
Name	OJ000320_32.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	21	End	2553
GI	none	Score	80
Exons	21..107, 22..108, 389..517, 518..598, 549..596, 661..771, 668..760, 766..831, 1157..1267, 1163..1300, 1173..1316, 1398..1496, 1485..1541, 1678..1824, 1680..1829, 1910..1984, 2059..2262, 2356..2553, 2420..2548		

Seq. No.	57699	Seq. ID	OJ000320_32.0419.C6
Gene No.	120714	Strand	-
Start	1	End	2570
Name	OJ000320_32.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	383	End	1487
GI	none	Score	104
Exons	383..508, 387..506, 545..598, 552..596, 661..771, 668..754, 751..831, 772..849, 1157..1276, 1163..1291, 1173..1280, 1180..1284, 1395..1487		

Seq. No.	57699	Seq. ID	OJ000320_32.0419.C6
Gene No.	120714	Strand	-
Start	1	End	2570
Name	OJ000320_32.0419.C6.o1.gs	Method	GENSCAN
Start	390	End	2556
GI	none	Score	.97
Exons	390..592, 670..828, 1181..1290, 1400..1541, 1680..1826, 1909..1983, 2059..2268, 2359..2556		

Seq. No.	57699	Seq. ID	OJ000320_32.0419.C6
Gene No.	120714	Strand	-
Start	1	End	2570
Name	OJ000320_32.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	522	End	857
GI	none	Score	122
Exons	522..596, 523..597, 523..597, 661..831, 670..831, 672..857		

Seq. No.	57699	Seq. ID	OJ000320_32.0419.C6
Gene No.	120714	Strand	-
Start	1	End	2570
Name	OJ000320_32.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	1173	End	2568
GI	none	Score	46
Exons	1173..1220, 1173..1220, 1219..1236, 1256..1300, 1257..1292, 1393..1446, 1398..1541, 1483..1542, 1677..1733, 1680..1724, 1725..1832, 1726..1827, 1880..1984, 1922..1984, 1926..1988, 1953..1994, 2005..2262, 2057..2263, 2059..2289, 2088..2306, 2353..2562, 2357..2563, 2362..2568		

Seq. No.	57699	Seq. ID	OJ000320_32.0419.C6
Gene No.	120714	Strand	-
Start	1	End	2570
Name	OJ000320_32.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	2146	End	2527
GI	none	Score	63
Exons	2146..2262, 2147..2257, 2152..2262, 2353..2526, 2417..2527		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7

Gene No.	120715	Strand	+
Start	5595	End	10453
Name	OJ000320_32.0419.C7.o3.gs	Method	GENSCAN
Start	5595	End	9675
GI	none	Score	.8
Exons	5595..6005, 6137..6313, 6442..6566, 6634..6766, 6871..7020, 7110..7163, 8731..8832, 8884..9675		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120715	Strand	+
Start	5595	End	10453
Name	OJ000320_32.0419.C7.o1.np	Method	AAT/NAP
Start	5607	End	10324
GI	4850399	Score	1597
Exons	5607..6005, 6137..6313, 6442..6566, 6634..6766, 6871..7020, 7110..7163, 7433..7537, 7871..7930, 8026..8100, 8184..8237, 8731..8856, 8911..9115, 9185..9597, 9694..9732, 9766..9825, 9924..10031, 10178..10324		
GI Descrip.	(AC007357) F3F19.18 [Arabidopsis thaliana]		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120715	Strand	+
Start	5595	End	10453
Name	OJ000320_32.0419.C7.o3.gp	Method	AAT/GAP
Start	8743	End	9179
GI	427365	Score	681
Exons	8743..8832, 8911..9179		
GI Descrip.	4850399/gb|AAD31069.1|AC007357_18 1.0e-13 (AC007357) F3F19.18 [Arabidopsis thaliana]		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120715	Strand	+
Start	5595	End	10453
Name	OJ000320_32.0419.C7.o4.gp	Method	AAT/GAP
Start	9991	End	10453
GI	2442924	Score	560
Exons	9991..10031, 10178..10453		
GI Descrip.	5262763/emb|CAB45911.1| 9.0e-09 (AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120716	Strand	+
Start	11172	End	13095
Name	OJ000320_32.0419.C7.o5.gp	Method	AAT/GAP
Start	11158	End	11614
GI	17023_1.R1084	Score	422
Exons	11158..11292, 11456..11614		
GI Descrip.	'4508073/gb|AAD21417.1| 1.0e-15 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120716	Strand	+
Start	11172	End	13095
Name	OJ000320_32.0419.C7.o4.gs	Method	GENSCAN
Start	11172	End	12637
GI	none	Score	.94
Exons	11172..11292, 11456..11622, 12331..12540, 12575..12637		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120716	Strand	+
Start	11172	End	13095
Name	OJ000320_32.0419.C7.o2.np	Method	AAT/NAP
Start	11175	End	13095
GI	5852933	Score	276
Exons	11175..11292, 11456..11622, 12331..12509, 12797..13095		
GI Descrip.	(AF167556) dihydroflavonol-4-reductase DFR1 [Glycine max]		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120717	Strand	-
Start	1	End	471
Name	OJ000320_32.0419.C7.o1.gp	Method	AAT/GAP
Start	1	End	465
GI	uC-osf1M202097d05b1	Score	623
Exons	1..182, 271..465		
GI Descrip.	'1170620/sp|P46864|KATB_ARATH 4.0e-19 KINESIN-LIKE PROTEIN B >gi_1084341_pir__S48019 kinesin-related protein katB - Arabidopsis thaliana >gi_1438842_dbj_BAA04673_ (D21137) heavy chain polypeptide of kinesin-like protein [Arabidopsis thaliana]'		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120717	Strand	-
Start	1	End	471
Name	OJ000320_32.0419.C7.o1.gs	Method	GENSCAN
Start	38	End	471
GI	none	Score	.81
Exons	38..182, 271..471		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120718	Strand	-
Start	591	End	953
Name	OJ000320_32.0419.C7.o2.gp	Method	AAT/GAP
Start	591	End	953
GI	63359_1.R1084	Score	645
Exons	591..953		
GI Descrip.	'5262763/emb|CAB45911.1| 9.0e-09 (AL080283) putative protein [Arabidopsis thaliana]'		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120719	Strand	-
Start	3139	End	4575
Name	OJ000320_32.0419.C7.o2.gs	Method	GENSCAN
Start	3139	End	4575
GI	none	Score	.88
Exons	3139..3257, 4170..4575		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	37	End	408
GI	none	Score	140
Exons	37..183, 39..185, 58..183, 271..408, 278..400		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o5.tm	Method	TBLASTX:Maize
Start	5588	End	5753
GI	none	Score	199
Exons	5588..5701, 5589..5753		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	5664	End	5996
GI	none	Score	114
Exons	5664..5795, 5826..5996		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	6196	End	6576
GI	none	Score	161
Exons	6196..6297, 6197..6313, 6427..6576, 6444..6566		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o4.tm	Method	TBLASTX:Maize
Start	6439	End	6730
GI	none	Score	216
Exons	6439..6597, 6439..6567, 6440..6568, 6444..6593, 6631..6669, 6632..6676, 6635..6730, 6636..6722		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6949	End	9971
GI	none	Score	103
Exons	6949..7020, 6951..7013, 7107..7166, 7108..7164, 7109..7165, 7213..7263, 7439..7537, 7441..7536, 7865..7933, 7865..7930, 8005..8103, 8026..8100, 8181..8240, 8183..8236, 8183..8272, 8729..8809, 8733..8843, 8733..8834, 8734..8844, 8908..9114, 8909..9112, 8911..9123, 9113..9217, 9118..9201, 9230..9298, 9368..9598, 9368..9601, 9668..9826, 9717..9824, 9724..9831, 9924..9971		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	7898	End	8835
GI	none	Score	57
Exons	7898..7933, 8005..8103, 8026..8100, 8181..8237, 8184..8234, 8730..8834, 8734..8835		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7

Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	9556	End	10297
GI	none	Score	63
Exons	9556..9597, 9754..9831, 9923..10027, 9924..10031, 10170..10274, 10175..10240, 10178..10297		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	11132	End	12408
GI	none	Score	114
Exons	11132..11299, 11186..11290, 11190..11300, 11454..11618, 11455..11622, 11458..11625, 12322..12408, 12328..12408		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	11204	End	12441
GI	none	Score	117
Exons	11204..11296, 11205..11297, 11458..11604, 11459..11566, 11463..11618, 11464..11622, 12328..12441, 12357..12440		

Seq. No.	57700	Seq. ID	OJ000320_32.0419.C7
Gene No.	120720	Strand	-
Start	12850	End	13048
Name	OJ000320_32.0419.C7.o5.gs	Method	GENSCAN
Start	12850	End	13048
GI	none	Score	.42
Exons	12850..13048		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o1.gs	Method	GENSCAN
Start	107	End	3185
GI	none	Score	.51
Exons	107..288, 677..3185		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o1.np	Method	AAT/NAP
Start	660	End	3230
GI	7489738	Score	3240
Exons	660..3230		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi|4234852|gb|AAD12997.1| (AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o4.tm	Method	TBLASTX:Maize

Start	699	End	1157
GI	none	Score	52
Exons	699..890, 939..1115, 949..1116, 1098..1157, 1105..1125		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o3.tw	Method	TBLASTX:Wheat
Start	711	End	1114
GI	none	Score	118
Exons	711..1106, 877..1110, 1001..1114		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	714	End	1280
GI	none	Score	60
Exons	714..905, 894..1085, 988..1089, 1098..1280		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1170	End	1601
GI	none	Score	126
Exons	1170..1466, 1171..1326, 1440..1601		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	1266	End	2046
GI	none	Score	154
Exons	1266..1715, 1270..1716, 1692..2045, 1699..2046, 1701..2045		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	1602	End	2045
GI	none	Score	139
Exons	1602..1703, 1737..2045, 1738..2028		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1737	End	2174
GI	5509260	Score	44
Exons	1737..2174, 1738..1770, 1813..2085		
GI Descrip.	-		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o1.tc	Method	TBLASTX:Cress

Start	1827	End	2087
GI	none	Score	116
Exons	1827..2087, 1849..2085		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o3.ts	Method	TBLASTX:Soybean
Start	2685	End	3071
GI	none	Score	77
Exons	2685..2858, 2862..3071, 2890..3069		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	2688	End	3230
GI	none	Score	35
Exons	2688..2786, 2713..2787, 2766..3071, 2788..3048, 3111..3230, 3112..3210		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	2691	End	3071
GI	none	Score	123
Exons	2691..2858, 2871..3071		

Seq. No.	57701	Seq. ID	OJ000320_32.0419.C8
Gene No.	120721	Strand	-
Start	107	End	3230
Name	OJ000320_32.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	2694	End	3071
GI	none	Score	58
Exons	2694..2765, 2773..2856, 2778..2855, 2862..3071, 2964..3023		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120722	Strand	+
Start	5950	End	6413
Name	OJ000320_32.0419.C9.o1.gp	Method	AAT/GAP
Start	5950	End	6413
GI	none	Score	850
Exons	5950..6413		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120723	Strand	+
Start	7534	End	8978
Name	OJ000320_32.0419.C9.o2.gp	Method	AAT/GAP
Start	7410	End	8978
GI	21070_1.R1084	Score	1452
Exons	7410..7641, 8058..8180, 8549..8978		
GI Descrip.	'4928460/gb|AAD33596.1|AF133127_1 6.0e-28 (AF133127) thioredoxin h [Hevea brasiliensis]'		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120723	Strand	+

Start	7534	End	8978
Name	OJ000320_32.0419.C9.o2.gs	Method	GENSCAN
Start	7534	End	8719
GI	none	Score	.93
Exons	7534..7641, 8058..8180, 8549..8719		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120723	Strand	+
Start	7534	End	8978
Name	OJ000320_32.0419.C9.o2.np	Method	AAT/NAP
Start	7540	End	8698
GI	4928460	Score	289
Exons	7540..7641, 8058..8180, 8549..8698		
GI Descrip.	(AF133127) thioredoxin h [Hevea brasiliensis]		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120724	Strand	-
Start	1	End	4923
Name	OJ000320_32.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1224
GI	4234846	Score	789
Exons	1..1021, 1064..1224		
GI Descrip.	(AF082130) gag-pol polyprotein [Zea mays]		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120724	Strand	-
Start	1	End	4923
Name	OJ000320_32.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	121	End	1132
GI	none	Score	50
Exons	121..186, 227..277, 382..513, 401..442, 523..1131, 554..1132		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120724	Strand	-
Start	1	End	4923
Name	OJ000320_32.0419.C9.o1.gs	Method	GENSCAN
Start	381	End	4923
GI	none	Score	.64
Exons	381..1232, 1812..1853, 2460..2596, 4059..4109, 4157..4316, 4633..4758, 4839..4923		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120725	Strand	
Start	7521	End	8786
Name	OJ000320_32.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	7521	End	8786
GI	none	Score	152
Exons	7521..7643, 7528..7644, 8391..8423, 8535..8591, 8543..8677, 8548..8682, 8753..8782, 8760..8786		

Seq. No.	57702	Seq. ID	OJ000320_32.0419.C9
Gene No.	120725	Strand	
Start	7521	End	8786
Name	OJ000320_32.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	8046	End	8184
GI	none	Score	116
Exons	8046..8183, 8050..8163, 8050..8184, 8058..8183		

Seq. No.	57703	Seq. ID	OJ000320_32.0419.C10
Gene No.	120726	Strand	+
Start	4	End	243
Name	OJ000320_32.0419.C10.o1.gs	Method	GENSCAN
Start	4	End	243
GI	none	Score	.99
Exons	4..243		

Seq. No.	57703	Seq. ID	OJ000320_32.0419.C10
Gene No.	120727	Strand	-
Start	1373	End	1794
Name	OJ000320_32.0419.C10.o2.gs	Method	GENSCAN
Start	1373	End	1794
GI	none	Score	.75
Exons	1373..1794		

Seq. No.	57704	Seq. ID	OJ000320_32.0419.C12
Gene No.	120728	Strand	+
Start	1	End	724
Name	OJ000320_32.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	724
GI	6721543	Score	89
Exons	1..119, 667..724		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	57704	Seq. ID	OJ000320_32.0419.C12
Gene No.	120728	Strand	+
Start	1	End	724
Name	OJ000320_32.0419.C12.o2.np	Method	AAT/NAP
Start	606	End	724
GI	7228442	Score	174
Exons	606..724		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	57704	Seq. ID	OJ000320_32.0419.C12
Gene No.	120729	Strand	-
Start	13	End	82
Name	OJ000320_32.0419.C12.o1.gs	Method	GENSCAN
Start	13	End	82
GI	none	Score	.97
Exons	13..82		

Seq. No.	57705	Seq. ID	OJ000320_32.0419.C13
Gene No.	120730	Strand	+
Start	188	End	782
Name	OJ000320_32.0419.C13.o1.gs	Method	GENSCAN
Start	188	End	736
GI	none	Score	.76
Exons	188..474, 569..736		

Seq. No.	57705	Seq. ID	OJ000320_32.0419.C13
Gene No.	120730	Strand	+
Start	188	End	782
Name	OJ000320_32.0419.C13.o1.tm	Method	TBLASTX:Maize

Start	366	End	782
GI	none	Score	82
Exons	366..416, 367..417, 421..474, 556..738, 569..736, 738..782, 739..777, 741..782		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120731	Strand	+
Start	1483	End	4046
Name	OJ000320_32.0419.C14.o1.gs	Method	GENSCAN
Start	1483	End	4046
GI	none	Score	.92
Exons	1483..1783, 1939..4046		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120731	Strand	+
Start	1483	End	4046
Name	OJ000320_32.0419.C14.o1.np	Method	AAT/NAP
Start	1585	End	1741
GI	7489454	Score	43
Exons	1585..1741		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi|2943742|dbj|BAA25068.1| (AB002266) XA1 [Oryza sativa]		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	2696	End	2980
GI	none	Score	318
Exons	2696..2980, 2697..2975, 2698..2976		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	2982	End	3672
GI	none	Score	163
Exons	2982..3152, 2984..3139, 3138..3668, 3147..3497, 3154..3672, 3260..3667, 3534..3668		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	3291	End	3668
GI	none	Score	221
Exons	3291..3668		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	3557	End	3959
GI	none	Score	163
Exons	3557..3667, 3558..3671, 3558..3689, 3565..3696, 3568..3690, 3699..3959, 3726..3959		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	3729	End	4043
GI	none	Score	268
Exons	3729..4043, 3824..3928		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	3732	End	4019
GI	none	Score	203
Exons	3732..4019, 3818..3931		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	3741	End	4040
GI	none	Score	240
Exons	3741..4040, 3761..4036		

Seq. No.	57706	Seq. ID	OJ000320_32.0419.C14
Gene No.	120732	Strand	-
Start	5836	End	6530
Name	OJ000320_32.0419.C14.o3.np	Method	AAT/NAP
Start	5836	End	6530
GI	4508081	Score	219
Exons	5836..6530		
GI Descrip.	(AC005882) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120733	Strand	-
Start	286	End	2506
Name	OJ000320_32.0419.C15.o1.gs	Method	GENSCAN
Start	286	End	2506
GI	none	Score	.83
Exons	286..698, 1320..1488, 1711..1899, 1988..2155, 2492..2506		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120734	Strand	-
Start	4804	End	7332
Name	OJ000320_32.0419.C15.o2.gs	Method	GENSCAN
Start	4804	End	7332
GI	none	Score	.87
Exons	4804..5858, 6018..6585, 7171..7332		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	274	End	2134
GI	none	Score	78
Exons	274..726, 286..651, 512..727, 1294..1404, 1390..1482, 1708..1854, 1870..1911, 1982..2134, 1983..2102		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o4.tm	Method	TBLASTX:Maize
Start	286	End	1483
GI	none	Score	71
Exons	286..363, 289..396, 293..397, 571..624, 611..733, 634..726,	418..564, 421..564, 571..621, 1366..1482, 1400..1483	

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o3.ts	Method	TBLASTX:Soybean
Start	289	End	2125
GI	none	Score	103
Exons	289..402, 290..409, 418..558, 1385..1489, 1399..1488, 1717..1851, 1717..1854, 1736..1852, 1982..2125, 1983..2015	500..565, 580..726, 606..698,	

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	1699	End	2125
GI	none	Score	133
Exons	1699..1911, 1739..1900, 1982..2125, 1992..2117		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	1717	End	2126
GI	none	Score	62
Exons	1717..1833, 1717..1911, 1739..1852, 1982..2125, 1992..2126		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	4802	End	5256
GI	none	Score	148
Exons	4802..5233, 4807..5256		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	4849	End	6504
GI	none	Score	210
Exons	4849..5481, 4943..5512, 5050..5517, 5218..5427, 5224..5481, 5248..5487, 5608..5850, 5608..5847, 6016..6351, 6017..6241, 6025..6195, 6220..6408, 6295..6504, 6296..6487, 6307..6498		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796

Name	OJ000320_32.0419.C15.o3.tw	Method	TBLASTX:Wheat
Start	4855	End	8111
GI	none	Score	112
Exons	4855..4911, 4969..5058, 5116..5481, 5117..5521, 5176..5292, 5617..5724, 5764..5862, 6028..6360, 6029..6241, 6295..6519, 8055..8111		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o3.tc	Method	TBLASTX:Cress
Start	4984	End	6447
GI	none	Score	136
Exons	4984..5376, 5006..5377, 6013..6144, 6295..6447, 6308..6436		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o4.ts	Method	TBLASTX:Soybean
Start	5257	End	6507
GI	none	Score	67
Exons	5257..5397, 5317..5487, 6022..6165, 6085..6462, 6331..6459, 6368..6466, 6388..6507		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o1.gp	Method	AAT/GAP
Start	7995	End	8796
GI	294_6.R1084	Score	1389
Exons	7995..8796		
GI Descrip.	'541546/pir||S40611 2.0e-55 ubiquitin precursor - Volvox carteri >gi_395295_emb_CAA52290_ (X74214) polyubiquitin [Volvox carteri]'		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	8201	End	8796
GI	none	Score	56
Exons	8201..8443, 8201..8440, 8208..8258, 8208..8258, 8215..8787, 8218..8682, 8245..8796, 8245..8670, 8245..8796, 8245..8796, 8246..8428, 8328..8621, 8443..8796, 8448..8732, 8474..8794, 8474..8794, 8474..8794, 8474..8794, 8672..8794		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	8201	End	8796
GI	none	Score	52
Exons	8201..8440, 8212..8271, 8216..8668, 8217..8276, 8217..8276, 8218..8463, 8222..8782, 8223..8276, 8245..8796, 8245..8670, 8246..8425, 8246..8671, 8326..8784, 8440..8796, 8460..8747, 8474..8794, 8474..8794, 8669..8794		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o1.np	Method	AAT/NAP
Start	8209	End	8796
GI	3126967	Score	955
Exons	8209..8796		
GI Descrip.	(AF061807) polyubiquitin [Elaeagnus umbellata]		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o3.gs	Method	GENSCAN
Start	8209	End	8751
GI	none	Score	.9
Exons	8209..8751		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	8212	End	8796
GI	none	Score	489
Exons	8212..8796, 8215..8796, 8215..8796, 8215..8784, 8215..8670, 8216..8668, 8219..8794, 8219..8794, 8219..8719, 8245..8796, 8245..8796, 8245..8670, 8245..8796, 8245..8796, 8434..8784, 8443..8796, 8474..8794, 8474..8671, 8662..8796		

Seq. No.	57707	Seq. ID	OJ000320_32.0419.C15
Gene No.	120735	Strand	-
Start	8209	End	8796
Name	OJ000320_32.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	8215	End	8796
GI	none	Score	56
Exons	8215..8271, 8224..8784, 8225..8782, 8225..8470, 8245..8796, 8245..8670, 8246..8428, 8326..8454, 8331..8468, 8335..8682, 8384..8428, 8384..8794, 8386..8796, 8388..8519, 8389..8793, 8480..8794, 8480..8794, 8613..8747		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120736	Strand	+
Start	1802	End	3926
Name	OJ000320_32.0419.C16.o2.np	Method	AAT/NAP
Start	1802	End	3926
GI	5042416	Score	436
Exons	1802..1861, 2697..2863, 3216..3926		
GI Descrip.	(AC006193) Unknown protein [Arabidopsis thaliana]		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120737	Strand	-
Start	1	End	559
Name	OJ000320_32.0419.C16.o1.gp	Method	AAT/GAP
Start	1	End	531
GI	294_6.R1084	Score	937
Exons	1..531		
GI Descrip.	'541546/pir||S40611 2.0e-55 ubiquitin precursor - Volvox carteri >gi_395295_emb_CAA52290_ (X74214) polyubiquitin [Volvox		

carteri]'

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120737	Strand	-
Start	1	End	559
Name	OJ000320_32.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	520
GI	70642	Score	836
Exons	1..520		
GI Descrip.	polyubiquitin 5 - Arabidopsis thaliana gi|17678|emb|CAA31331.1| (X12853) polyubiquitin (AA 1 - 382) [Arabidopsis thaliana] gi|987519|gb|AAB53929.1| (U33014) polyubiquitin [Arabidopsis thaliana] gi|226499|prf||1515347A poly-ubiquitin [Arabidopsis thaliana]		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120737	Strand	-
Start	1	End	559
Name	OJ000320_32.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	1	End	541
GI	none	Score	43
Exons	1..21, 2..523, 3..47, 3..293, 62..520, 73..402, 76..402, 96..521, 96..521, 291..539, 293..541, 466..540		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120737	Strand	-
Start	1	End	559
Name	OJ000320_32.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	2	End	559
GI	none	Score	329
Exons	2..520, 2..292, 2..559, 2..520, 2..520, 2..520, 15..539, 61..402, 65..520, 96..539, 96..539, 96..539, 96..539, 96..542, 282..518, 294..533		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120737	Strand	-
Start	1	End	559
Name	OJ000320_32.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	2	End	545
GI	none	Score	69
Exons	2..64, 2..544, 3..50, 3..47, 3..92, 6..50, 6..320, 6..293, 8..520, 11..520, 61..402, 61..342, 96..302, 102..545, 102..521, 234..521		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120737	Strand	-
Start	1	End	559
Name	OJ000320_32.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	2	End	542
GI	none	Score	152
Exons	2..166, 2..166, 2..526, 2..166, 2..520, 24..530, 24..311, 61..291, 88..393, 89..160, 96..161, 96..542, 96..533, 96..542, 140..520, 150..533, 150..521, 303..389, 317..388		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120738	Strand	
Start	2599	End	3912

Name	OJ000320_32.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	2599	End	3888
GI	none	Score	82
Exons	2599..2685, 2599..2658, 2610..2684, 2622..2690, 2673..2864, 2687..2866, 2688..2864, 3148..3465, 3181..3465, 3646..3705, 3727..3789, 3832..3888		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120738	Strand	
Start	2599	End	3912
Name	OJ000320_32.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	3217	End	3912
GI	none	Score	103
Exons	3217..3360, 3382..3468, 3583..3783, 3630..3782, 3823..3912		

Seq. No.	57708	Seq. ID	OJ000320_32.0419.C16
Gene No.	120738	Strand	
Start	2599	End	3912
Name	OJ000320_32.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	3247	End	3912
GI	none	Score	95
Exons	3247..3462, 3672..3782, 3673..3912, 3700..3909		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120739	Strand	+
Start	1108	End	2137
Name	OJ000320_32.0419.C17.o1.gs	Method	GENSCAN
Start	1108	End	2137
GI	none	Score	.65
Exons	1108..1221, 1385..2137		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120739	Strand	+
Start	1108	End	2137
Name	OJ000320_32.0419.C17.o1.np	Method	AAT/NAP
Start	1785	End	2134
GI	4585973	Score	354
Exons	1785..2134		
GI Descrip.	(AC005287) translation initiation factor [Arabidopsis thaliana]		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120740	Strand	-
Start	2485	End	4473
Name	OJ000320_32.0419.C17.o2.gs	Method	GENSCAN
Start	2485	End	4473
GI	none	Score	.41
Exons	2485..2670, 2716..2903, 2911..3159, 3249..3714, 3719..4099, 4411..4473		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	1883	End	2137
GI	none	Score	340
Exons	1883..2137		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o7.tw	Method	TBLASTX:Wheat
Start	1883	End	2158
GI	none	Score	332
Exons	1883..2158		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	1883	End	2137
GI	none	Score	337
Exons	1883..2137, 2038..2130		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o6.tm	Method	TBLASTX:Maize
Start	1883	End	2158
GI	none	Score	331
Exons	1883..2158		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o2.np	Method	AAT/NAP
Start	8072	End	11305
GI	4680179	Score	3997
Exons	8072..11305		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o4.gs	Method	GENSCAN
Start	8101	End	11145
GI	none	Score	.94
Exons	8101..11145		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o5.tw	Method	TBLASTX:Wheat
Start	8116	End	8448
GI	none	Score	114
Exons	8116..8448, 8137..8286, 8168..8353, 8341..8409, 8343..8441		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o7.tm	Method	TBLASTX:Maize
Start	8131	End	8294
GI	none	Score	85
Exons	8131..8289, 8133..8294, 8134..8292		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	8299	End	8892
GI	none	Score	64
Exons	8299..8394, 8299..8736, 8309..8518, 8467..8616, 8594..8737, 8655..8738, 8734..8892, 8741..8887, 8743..8889		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	8449	End	9075
GI	none	Score	255
Exons	8449..9075, 8573..8980		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o4.tm	Method	TBLASTX:Maize
Start	8944	End	9236
GI	none	Score	97
Exons	8944..9234, 8947..9162, 9044..9223, 9084..9236		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	9034	End	9289
GI	none	Score	82
Exons	9034..9162, 9034..9282, 9044..9289		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o2.tc	Method	TBLASTX:Cress
Start	9058	End	9375
GI	none	Score	99
Exons	9058..9201, 9074..9199, 9202..9375, 9256..9354		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o3.tw	Method	TBLASTX:Wheat
Start	9082	End	9606
GI	none	Score	267
Exons	9082..9606, 9086..9454		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	9644	End	10002
GI	none	Score	229
Exons	9644..9925, 9649..10002, 9701..10000		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o2.tw	Method	TBLASTX:Wheat
Start	9649	End	10075
GI	none	Score	70
Exons	9649..10074, 9651..9788, 9664..10017, 9686..10075		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o4.ts	Method	TBLASTX:Soybean
Start	9823	End	10068
GI	none	Score	212
Exons	9823..10068		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	10039	End	10539
GI	none	Score	70
Exons	10039..10374, 10061..10330, 10360..10539		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o6.tw	Method	TBLASTX:Wheat
Start	10081	End	10377
GI	none	Score	154
Exons	10081..10377, 10118..10333		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	10090	End	10485
GI	none	Score	133
Exons	10090..10449, 10118..10333, 10373..10468, 10453..10485, 10453..10485		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o4.tw	Method	TBLASTX:Wheat
Start	10426	End	10909
GI	none	Score	162
Exons	10426..10908, 10438..10881, 10454..10909		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o5.tm	Method	TBLASTX:Maize
Start	10609	End	10896
GI	none	Score	180
Exons	10609..10896, 10610..10795		

Seq. No.	57709	Seq. ID	OJ000320_32.0419.C17
Gene No.	120741	Strand	-
Start	8101	End	11305
Name	OJ000320_32.0419.C17.o8.tw	Method	TBLASTX:Wheat
Start	10912	End	11275
GI	none	Score	56
Exons	10912..11010, 10913..10987, 11086..11274, 11093..11275		

Seq. No.	57710	Seq. ID	OJ000320_32.0419.C18
Gene No.	120742	Strand	-
Start	447	End	1493
Name	OJ000320_32.0419.C18.o1.gs	Method	GENSCAN
Start	447	End	1493
GI	none	Score	.57
Exons	447..710, 1373..1493		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120743	Strand	+
Start	187	End	456
Name	OJ000320_32.0419.C22.o1.gs	Method	GENSCAN
Start	187	End	456
GI	none	Score	.96
Exons	187..267, 313..456		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120744	Strand	+
Start	2294	End	2740
Name	OJ000320_32.0419.C22.o2.gs	Method	GENSCAN
Start	2294	End	2740
GI	none	Score	.65
Exons	2294..2410, 2552..2740		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120745	Strand	+
Start	3970	End	11197
Name	OJ000320_32.0419.C22.o3.gs	Method	GENSCAN
Start	3970	End	6757
GI	none	Score	.97
Exons	3970..4065, 4104..4254, 4524..4690, 5438..5656, 5749..5908, 6302..6521, 6604..6757		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120745	Strand	+
Start	3970	End	11197
Name	OJ000320_32.0419.C22.o1.np	Method	AAT/NAP
Start	4122	End	10050
GI	6689826	Score	598
Exons	4122..4254, 4524..4690, 5438..5651, 9325..9496, 9610..9804, 9886..10050		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120745	Strand	+
Start	3970	End	11197
Name	OJ000320_32.0419.C22.o3.gp	Method	AAT/GAP
Start	8337	End	8884
GI	uC-osflcyp017f04b1	Score	612

Exons	8337..8569, 8760..8884		
GI Descrip.	'4508073/gb|AAD21417.1| 2.0e-17 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120745	Strand	+
Start	3970	End	11197
Name	OJ000320_32.0419.C22.o4.gs	Method	GENSCAN
Start	8446	End	11197
GI	none	Score	.84
Exons	8446..8569, 8760..8935, 9019..9228, 9326..9485, 9599..9818, 9894..10028, 10150..10208, 10841..11031, 11033..11197		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120745	Strand	+
Start	3970	End	11197
Name	OJ000320_32.0419.C22.o4.gp	Method	AAT/GAP
Start	9577	End	10225
GI	33857_1.R1084	Score	901
Exons	9577..9818, 9894..10225		
GI Descrip.	'4508073/gb|AAD21417.1| 5.0e-22 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120746	Strand	-
Start	1	End	252
Name	OJ000320_32.0419.C22.o1.gp	Method	AAT/GAP
Start	1	End	252
GI	25545_1.R1084	Score	504
Exons	1..252		
GI Descrip.	'1170619/sp|Q07970|KATA_ARATH 5.0e-47 KINESIN-LIKE PROTEIN A >gi_479594_pir__S34830 kinesin-related protein katA - Arabidopsis thaliana >gi_303502_dbj_BAA01972_ (D11371) kinesin-like motor protein heavy chain [Arabidopsis thaliana] >gi_2911084_emb_CAA17546.1_ (AL021960) kinesin-related protein katA [Arabidopsis thaliana]'		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120747	Strand	-
Start	5202	End	5274
Name	OJ000320_32.0419.C22.o2.gp	Method	AAT/GAP
Start	5202	End	5274
GI	LIB3431-004-P1-K1-G12	Score	96
Exons	5202..5274		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	4118	End	9493
GI	none	Score	102
Exons	4118..4246, 4161..4250, 4574..4690, 5435..5563, 5588..5647, 5749..5934, 8469..8561, 8473..8562, 8810..8902, 9016..9129, 9160..9219, 9326..9493		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	4125	End	9129
GI	none	Score	82
Exons	4125..4253, 4472..4696, 4520..4690, 5435..5566, 5464..5547, 8461..8568, 8759..8914, 9016..9129		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	4166	End	9134
GI	none	Score	134
Exons	4166..4258, 4167..4259, 4520..4687, 4523..4672, 5435..5548, 5461..5547, 8481..8573, 8482..8574, 8759..8902, 8759..8902, 9016..9132, 9016..9102, 9045..9134		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	4553	End	9139
GI	none	Score	179
Exons	4553..4690, 4568..4696, 5408..5575, 5435..5578, 5437..5577, 8776..8805, 8777..8806, 8788..8901, 8801..8902, 8801..8938, 9016..9132, 9016..9102, 9017..9139		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	5776	End	9771
GI	none	Score	138
Exons	5776..5913, 5808..5912, 6322..6414, 6324..6410, 6428..6454, 6429..6473, 9353..9493, 9355..9492, 9594..9740, 9595..9648, 9637..9750, 9652..9771, 9663..9770		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	6343	End	9975
GI	none	Score	87
Exons	6343..6420, 6418..6510, 6620..6685, 9651..9803, 9652..9807, 9910..9975		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o2.np	Method	AAT/NAP
Start	9649	End	11921
GI	5758858	Score	71
Exons	9649..9713, 10232..10379, 11844..11921		
GI Descrip.	(AF168890) ATP synthase beta subunit [Calathea loeseneri]		

Seq. No.	57711	Seq. ID	OJ000320_32.0419.C22
Gene No.	120748	Strand	-
Start	9649	End	11921
Name	OJ000320_32.0419.C22.o5.gs	Method	GENSCAN
Start	11514	End	11703
GI	none	Score	.84
Exons	11514..11703		

Seq. No.	57712	Seq. ID	OJ000320_32.0419.C23
Gene No.	120749	Strand	+
Start	1	End	818
Name	OJ000320_32.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	818
GI	7228442	Score	1404
Exons	1..818		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	57712	Seq. ID	OJ000320_32.0419.C23
Gene No.	120749	Strand	+
Start	1	End	818
Name	OJ000320_32.0419.C23.o1.gs	Method	GENSCAN
Start	63	End	707
GI	none	Score	.62
Exons	63..707		

Seq. No.	57713	Seq. ID	OJ000320_32.0419.C24
Gene No.	120750	Strand	-
Start	561	End	5965
Name	OJ000320_32.0419.C24.o1.gp	Method	AAT/GAP
Start	101	End	1042
GI	13803_1.R1084	Score	953
Exons	101..352, 552..674, 747..848, 966..1042		
GI Descrip.	'3935138 9.0e-30 (AC005106) T25N20.2 [Arabidopsis thaliana]'		

Seq. No.	57713	Seq. ID	OJ000320_32.0419.C24
Gene No.	120750	Strand	-
Start	561	End	5965
Name	OJ000320_32.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	156	End	3194
GI	none	Score	34
Exons	156..188, 245..271, 248..271, 253..333, 254..334, 551..673, 561..680, 562..675, 747..857, 748..849, 949..1029, 963..1028, 966..1034, 973..1032, 1366..1467, 1371..1469, 1372..1470, 1406..1477, 1547..1600, 1547..1600, 1551..1601, 1551..1601, 1552..1602, 1689..1760, 1708..1752, 1834..1896, 1840..1884, 1844..1912, 1844..1894, 1845..1895, 1893..2078, 1899..2078, 3056..3190, 3093..3194, 3105..3191		

Seq. No.	57713	Seq. ID	OJ000320_32.0419.C24
Gene No.	120750	Strand	-
Start	561	End	5965
Name	OJ000320_32.0419.C24.o1.gs	Method	GENSCAN
Start	561	End	4909
GI	none	Score	.54
Exons	561..674, 747..896, 966..1031, 1363..1464, 1547..1603,		

1707..1754, 1843..2076, 2991..3017, 3105..3270, 4544..4610, 4657..4909

Seq. No.	57713	Seq. ID	OJ000320_32.0419.C24
Gene No.	120750	Strand	-
Start	561	End	5965
Name	OJ000320_32.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	573	End	1751
GI	none	Score	50
Exons	573..680, 579..674, 580..675, 747..860, 747..857, 763..864, 775..888, 963..1034, 1358..1456, 1365..1454, 1366..1470, 1366..1467, 1505..1603, 1548..1604, 1689..1751, 1705..1749		

Seq. No.	57713	Seq. ID	OJ000320_32.0419.C24
Gene No.	120750	Strand	-
Start	561	End	5965
Name	OJ000320_32.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	573	End	1914
GI	none	Score	71
Exons	573..680, 580..675, 580..684, 747..857, 748..864, 960..1034, 1357..1422, 1366..1467, 1406..1465, 1505..1603, 1547..1588, 1551..1604, 1689..1751, 1699..1752, 1704..1760, 1846..1884, 1847..1912, 1849..1914		

Seq. No.	57713	Seq. ID	OJ000320_32.0419.C24
Gene No.	120750	Strand	-
Start	561	End	5965
Name	OJ000320_32.0419.C24.o1.np	Method	AAT/NAP
Start	4435	End	5965
GI	2982283	Score	86
Exons	4435..4626, 4808..5034, 5945..5965		
GI Descrip.	(AF051226) PREG-like protein [Picea mariana]		

Seq. No.	57714	Seq. ID	OJ000320_32.0419.C25
Gene No.	120751	Strand	-
Start	672	End	1231
Name	OJ000320_32.0419.C25.o1.np	Method	AAT/NAP
Start	648	End	1231
GI	2982283	Score	155
Exons	648..895, 938..1231		
GI Descrip.	(AF051226) PREG-like protein [Picea mariana]		

Seq. No.	57714	Seq. ID	OJ000320_32.0419.C25
Gene No.	120751	Strand	-
Start	672	End	1231
Name	OJ000320_32.0419.C25.o1.gs	Method	GENSCAN
Start	672	End	1082
GI	none	Score	.77
Exons	672..1082		

Seq. No.	57714	Seq. ID	OJ000320_32.0419.C25
Gene No.	120752	Strand	-
Start	2068	End	4185
Name	OJ000320_32.0419.C25.o2.gs	Method	GENSCAN
Start	2068	End	4185
GI	none	Score	.51
Exons	2068..2118, 2658..2701, 2890..2931, 3374..3492, 4052..4185		

Seq. No.	57714	Seq. ID	OJ000320_32.0419.C25
Gene No.	120753	Strand	
Start	4216	End	4521
Name	OJ000320_32.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	4216	End	4521
GI	none	Score	189
Exons	4216..4341, 4219..4350, 4224..4343, 4417..4521, 4428..4517		

Seq. No.	57714	Seq. ID	OJ000320_32.0419.C25
Gene No.	120753	Strand	
Start	4216	End	4521
Name	OJ000320_32.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	4230	End	4521
GI	none	Score	124
Exons	4230..4343, 4230..4361, 4231..4350, 4417..4521, 4428..4520		

Seq. No.	57715	Seq. ID	OJ000320_32.0419.C26
Gene No.	120754	Strand	+
Start	248	End	2178
Name	OJ000320_32.0419.C26.o1.gs	Method	GENSCAN
Start	248	End	2178
GI	none	Score	.61
Exons	248..299, 847..913, 1225..1395, 1509..1602, 1692..1771, 1886..1958, 2036..2178		

Seq. No.	57715	Seq. ID	OJ000320_32.0419.C26
Gene No.	120754	Strand	+
Start	248	End	2178
Name	OJ000320_32.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	1321	End	2079
GI	none	Score	117
Exons	1321..1401, 1347..1391, 1508..1600, 1509..1628, 1694..1768, 1696..1770, 1889..1957, 1900..1956, 2022..2078, 2035..2079		

Seq. No.	57716	Seq. ID	OJ000320_32.0419.C27
Gene No.	120755	Strand	+
Start	12	End	1490
Name	OJ000320_32.0419.C27.o1.gs	Method	GENSCAN
Start	12	End	1490
GI	none	Score	.94
Exons	12..214, 229..435, 1405..1490		

Seq. No.	57717	Seq. ID	OJ000320_32.0419.C28
Gene No.	120756	Strand	+
Start	1119	End	2441
Name	OJ000320_32.0419.C28.o1.gs	Method	GENSCAN
Start	1119	End	1676
GI	none	Score	.56
Exons	1119..1264, 1413..1513, 1595..1676		

Seq. No.	57717	Seq. ID	OJ000320_32.0419.C28
Gene No.	120756	Strand	+
Start	1119	End	2441
Name	OJ000320_32.0419.C28.o2.np	Method	AAT/NAP
Start	1226	End	2441
GI	7267249	Score	113

Exons	1226..1283, 1410..1533, 2346..2441		
GI Descrip.	(AL161502) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	57717	Seq. ID	OJ000320_32.0419.C28
Gene No.	120757	Strand	-
Start	676	End	900
Name	OJ000320_32.0419.C28.o1.np	Method	AAT/NAP
Start	676	End	900
GI	6069646	Score	89
Exons	676..900		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		
Seq. No.	57718	Seq. ID	OJ000320_32.0419.C29
Gene No.	120758	Strand	-
Start	762	End	964
Name	OJ000320_32.0419.C29.o1.gs	Method	GENSCAN
Start	762	End	964
GI	none	Score	.97
Exons	762..964		
Seq. No.	57719	Seq. ID	OJ000320_32.0419.C30
Gene No.	120759	Strand	-
Start	599	End	1427
Name	OJ000320_32.0419.C30.o1.gs	Method	GENSCAN
Start	599	End	1366
GI	none	Score	.7
Exons	599..766, 867..944, 1061..1366		
Seq. No.	57719	Seq. ID	OJ000320_32.0419.C30
Gene No.	120759	Strand	-
Start	599	End	1427
Name	OJ000320_32.0419.C30.o1.gp	Method	AAT/GAP
Start	1061	End	1427
GI	3768067	Score	675
Exons	1061..1427		
Seq. No.	57720	Seq. ID	OJ000320_32.0419.C31
Gene No.	120760	Strand	+
Start	2442	End	3128
Name	OJ000320_32.0419.C31.o1.gs	Method	GENSCAN
Start	2442	End	3116
GI	none	Score	.8
Exons	2442..3116		
Seq. No.	57720	Seq. ID	OJ000320_32.0419.C31
Gene No.	120760	Strand	+
Start	2442	End	3128
Name	OJ000320_32.0419.C31.o1.np	Method	AAT/NAP
Start	2442	End	3128
GI	6997193	Score	936
Exons	2442..3128		
GI Descrip.	(AC022355) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57720	Seq. ID	OJ000320_32.0419.C31
Gene No.	120760	Strand	+
Start	2442	End	3128
Name	OJ000320_32.0419.C31.o2.tm	Method	TBLASTX:Maize
Start	2445	End	2614
GI	none	Score	186
Exons	2445..2519, 2480..2614, 2481..2612		

Seq. No.	57720	Seq. ID	OJ000320_32.0419.C31
Gene No.	120760	Strand	+
Start	2442	End	3128
Name	OJ000320_32.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	2681	End	2951
GI	none	Score	187
Exons	2681..2794, 2682..2792, 2790..2951, 2793..2951		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120761	Strand	+
Start	3356	End	3885
Name	OJ000320_32.0419.C32.o3.gs	Method	GENSCAN
Start	3356	End	3885
GI	none	Score	.93
Exons	3356..3743, 3866..3885		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120762	Strand	+
Start	4264	End	5090
Name	OJ000320_32.0419.C32.o4.np	Method	AAT/NAP
Start	4264	End	5090
GI	6721543	Score	110
Exons	4264..4392, 5043..5090		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120763	Strand	-
Start	112	End	741
Name	OJ000320_32.0419.C32.o1.gs	Method	GENSCAN
Start	112	End	741
GI	none	Score	.72
Exons	112..249, 619..741		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120764	Strand	-
Start	1974	End	2449
Name	OJ000320_32.0419.C32.o2.gs	Method	GENSCAN
Start	1974	End	2449
GI	none	Score	.48
Exons	1974..2191, 2218..2449		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120765	Strand	-
Start	3311	End	3819
Name	OJ000320_32.0419.C32.o1.gp	Method	AAT/GAP
Start	3311	End	3819
GI	LIB3432-015-P1-K1-B3	Score	807
Exons	3311..3412, 3443..3819		
GI Descrip.	'5262763/emb|CAB45911.1| 9.0e-09 (AL080283) putative protein		

[Arabidopsis thaliana]'

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120765	Strand	-
Start	3311	End	3819
Name	OJ000320_32.0419.C32.o2.np	Method	AAT/NAP
Start	3367	End	3557
GI	3894187	Score	98
Exons	3367..3557		
GI Descrip.	(AC005662) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120766	Strand	-
Start	4010	End	4603
Name	OJ000320_32.0419.C32.o3.np	Method	AAT/NAP
Start	4010	End	4603
GI	5777617	Score	76
Exons	4010..4141, 4352..4412, 4491..4603		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120767	Strand	-
Start	4624	End	5090
Name	OJ000320_32.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	110	End	754
GI	none	Score	205
Exons	110..286, 112..279, 611..667, 615..665, 623..670, 667..753, 671..754		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120767	Strand	-
Start	4624	End	5090
Name	OJ000320_32.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	116	End	709
GI	none	Score	148
Exons	116..286, 136..279, 614..667, 615..668, 667..708, 668..709		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120767	Strand	-
Start	4624	End	5090
Name	OJ000320_32.0419.C32.o2.gp	Method	AAT/GAP
Start	4624	End	5077
GI	LIB3431-045-P1-N1-A10	Score	836
Exons	4624..5077		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	57721	Seq. ID	OJ000320_32.0419.C32
Gene No.	120767	Strand	-
Start	4624	End	5090
Name	OJ000320_32.0419.C32.o5.np	Method	AAT/NAP
Start	4878	End	5090
GI	7228442	Score	273
Exons	4878..5090		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	57722	Seq. ID	OJ000320_32.0419.C33
Gene No.	120768	Strand	-
Start	1	End	2043
Name	OJ000320_32.0419.C33.o1.gp	Method	AAT/GAP
Start	1	End	471
GI	LIB3475-007-P1-K1-G8	Score	734
Exons	1..219, 299..471		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	57722	Seq. ID	OJ000320_32.0419.C33
Gene No.	120768	Strand	-
Start	1	End	2043
Name	OJ000320_32.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	2043
GI	7228438	Score	1687
Exons	1..219, 299..597, 688..1098, 1183..1294, 1947..2043		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	57722	Seq. ID	OJ000320_32.0419.C33
Gene No.	120768	Strand	-
Start	1	End	2043
Name	OJ000320_32.0419.C33.o1.gs	Method	GENSCAN
Start	76	End	1773
GI	none	Score	.61
Exons	76..167, 346..597, 688..1098, 1273..1519, 1625..1773		

Seq. No.	57723	Seq. ID	OJ000320_32.0419.C34
Gene No.	120769	Strand	-
Start	1	End	567
Name	OJ000320_32.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	428
GI	6002794	Score	644
Exons	1..428		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	57723	Seq. ID	OJ000320_32.0419.C34
Gene No.	120769	Strand	-
Start	1	End	567
Name	OJ000320_32.0419.C34.o1.gs	Method	GENSCAN
Start	64	End	567
GI	none	Score	.55
Exons	64..196, 207..349, 396..567		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120770	Strand	+
Start	3418	End	6466
Name	OJ000330_32.0419.C3.o2.np	Method	AAT/NAP
Start	3418	End	6454
GI	6714532	Score	1025
Exons	3418..3513, 4608..5267, 5304..5643, 5733..6123, 6160..6454		
GI Descrip.	(AB029461) pectin methylesterase [Salix gilgiana]		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120770	Strand	+
Start	3418	End	6466
Name	OJ000330_32.0419.C3.o2.gs	Method	GENSCAN
Start	4566	End	6466
GI	none	Score	.69
Exons	4566..5643, 5733..6466		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120771	Strand	+
Start	7778	End	10983
Name	OJ000330_32.0419.C3.o3.gs	Method	GENSCAN
Start	7778	End	10983
GI	none	Score	.66
Exons	7778..7926, 8047..8189, 8282..8454, 8556..8708, 9302..9331, 10711..10983		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120772	Strand	-
Start	1	End	3781
Name	OJ000330_32.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1834
GI	7523502	Score	171
Exons	1..49, 1271..1430, 1731..1834		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120772	Strand	-
Start	1	End	3781
Name	OJ000330_32.0419.C3.o1.gs	Method	GENSCAN
Start	1223	End	3781
GI	none	Score	.44
Exons	1223..1311, 1317..1448, 2404..2432, 3513..3781		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	5022	End	6483
GI	none	Score	100
Exons	5022..5168, 5322..5369, 5343..5642, 5387..5641, 5740..6096, 5741..6091, 5837..6109, 6164..6403, 6166..6330, 6352..6453, 6356..6457, 6364..6483		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	5325	End	6361
GI	none	Score	43
Exons	5325..5360, 5382..5660, 5384..5650, 5731..6099, 5732..6097, 6163..6318, 6164..6361		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o6.tw	Method	TBLASTX:Wheat

Start	5349	End	5651
GI	none	Score	198
Exons	5349..5651, 5387..5638		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	5387	End	6454
GI	none	Score	171
Exons	5387..5467, 5388..5642, 5731..6099, 5732..6097, 6163..6318, 6164..6364, 6362..6454		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o3.tw	Method	TBLASTX:Wheat
Start	5767	End	6232
GI	none	Score	289
Exons	5767..6096, 5768..6094, 6161..6232, 6166..6222		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o3.np	Method	AAT/NAP
Start	11900	End	16156
GI	6850900	Score	2758
Exons	11900..13450, 13617..15177, 15253..15372, 15403..16156		
GI Descrip.	(AL137898) copia-type polyprotein [Arabidopsis thaliana]		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o4.ts	Method	TBLASTX:Soybean
Start	11924	End	12574
GI	none	Score	77
Exons	11924..12148, 11985..12113, 11987..12157, 12248..12400, 12413..12574, 12447..12545		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o7.tm	Method	TBLASTX:Maize
Start	11927	End	12388
GI	none	Score	120
Exons	11927..12142, 12248..12388		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	11933	End	12596
GI	none	Score	144
Exons	11933..12145, 12248..12298, 12302..12583, 12327..12596		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-

Start	11900	End	20089
Name	OJ000330_32.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	12461	End	12883
GI	none	Score	163
Exons	12461..12877, 12461..12883		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	12743	End	13283
GI	none	Score	60
Exons	12743..12952, 12938..13282, 12939..13004, 13149..13283		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	12948	End	13450
GI	5509260	Score	61
Exons	12948..13124, 12977..13450, 13161..13433		
GI Descrip.	-		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o5.tc	Method	TBLASTX:Cress
Start	13073	End	13328
GI	none	Score	124
Exons	13073..13327, 13098..13328		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o4.tm	Method	TBLASTX:Maize
Start	13103	End	13421
GI	none	Score	203
Exons	13103..13420, 13104..13421		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o3.ts	Method	TBLASTX:Soybean
Start	13814	End	14314
GI	none	Score	187
Exons	13814..14314, 14013..14306		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o3.tc	Method	TBLASTX:Cress
Start	13853	End	14299
GI	none	Score	102
Exons	13853..14299, 13866..14189, 14217..14297		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-

Start	11900	End	20089
Name	OJ000330_32.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	13916	End	14341
GI	none	Score	188
Exons	13916..13987, 13998..14318, 14000..14341		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	13988	End	14548
GI	none	Score	322
Exons	13988..14083, 14087..14548		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o4.np	Method	AAT/NAP
Start	14302	End	18995
GI	7445894	Score	250
Exons	14302..14350, 16707..17240, 18886..18995		
GI Descrip.	potassium channel protein - maize gi|2104908|emb|CAA68912.1| (Y07632) potassium channel [Zea mays]		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o5.ts	Method	TBLASTX:Soybean
Start	14351	End	14683
GI	none	Score	249
Exons	14351..14683, 14507..14587		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o4.tw	Method	TBLASTX:Wheat
Start	14621	End	15077
GI	none	Score	49
Exons	14621..14707, 14706..14753, 14708..14815, 14829..15077, 14831..15076		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o6.tm	Method	TBLASTX:Maize
Start	14687	End	15098
GI	none	Score	44
Exons	14687..14818, 14691..14786, 14879..15097, 14891..15088, 14958..15098		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o5.tm	Method	TBLASTX:Maize
Start	15512	End	15901
GI	none	Score	76
Exons	15512..15595, 15590..15685, 15597..15686, 15698..15901,		

15702..15896

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o5.tw	Method	TBLASTX:Wheat
Start	15626	End	16021
GI	none	Score	119
Exons	15626..16021, 15627..15980		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o8.tm	Method	TBLASTX:Maize
Start	15915	End	16174
GI	none	Score	101
Exons	15915..16127, 15917..16174		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o4.tc	Method	TBLASTX:Cress
Start	16716	End	17237
GI	none	Score	74
Exons	16716..16796, 16717..16797, 17040..17237, 17041..17232		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o5.gs	Method	GENSCAN
Start	17028	End	20089
GI	none	Score	.76
Exons	17028..17265, 19252..19344, 19950..20089		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o9.tm	Method	TBLASTX:Maize
Start	17040	End	17208
GI	none	Score	147
Exons	17040..17207, 17041..17208		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o6.ts	Method	TBLASTX:Soybean
Start	17085	End	17237
GI	none	Score	131
Exons	17085..17237, 17089..17226		

Seq. No.	57724	Seq. ID	OJ000330_32.0419.C3
Gene No.	120773	Strand	-
Start	11900	End	20089
Name	OJ000330_32.0419.C3.o5.np	Method	AAT/NAP
Start	17753	End	17860
GI	5777617	Score	69
Exons	17753..17860		

GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No.	57725	Seq. ID	OJ000330_32.0419.C4
Gene No.	120774	Strand	+
Start	135	End	453
Name	OJ000330_32.0419.C4.o1.gs	Method	GENSCAN
Start	135	End	453
GI	none	Score	.69
Exons	135..453		

Seq. No.	57725	Seq. ID	OJ000330_32.0419.C4
Gene No.	120775	Strand	-
Start	660	End	998
Name	OJ000330_32.0419.C4.o2.gs	Method	GENSCAN
Start	660	End	998
GI	none	Score	.7
Exons	660..998		

Seq. No.	57726	Seq. ID	OJ000330_32.0419.C5
Gene No.	120776	Strand	-
Start	1525	End	1835
Name	OJ000330_32.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1525	End	1834
GI	none	Score	337
Exons	1525..1782, 1529..1783, 1780..1833, 1781..1834		

Seq. No.	57726	Seq. ID	OJ000330_32.0419.C5
Gene No.	120776	Strand	-
Start	1525	End	1835
Name	OJ000330_32.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1525	End	1764
GI	none	Score	50
Exons	1525..1590, 1529..1588, 1600..1764, 1688..1762		

Seq. No.	57726	Seq. ID	OJ000330_32.0419.C5
Gene No.	120776	Strand	-
Start	1525	End	1835
Name	OJ000330_32.0419.C5.o2.gs	Method	GENSCAN
Start	1525	End	1758
GI	none	Score	.99
Exons	1525..1758		

Seq. No.	57726	Seq. ID	OJ000330_32.0419.C5
Gene No.	120776	Strand	-
Start	1525	End	1835
Name	OJ000330_32.0419.C5.o1.np	Method	AAT/NAP
Start	1528	End	1835
GI	7486453	Score	206
Exons	1528..1835		

GI Descrip. hypothetical protein F4I10.90 - Arabidopsis thaliana gi|4455330|emb|CAB36790.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270264|emb|CAB80033.1| (AL161583) putative protein [Arabidopsis thaliana]

Seq. No.	57727	Seq. ID	OJ000330_32.0419.C6
Gene No.	120777	Strand	-
Start	1	End	831

Name	OJ000330_32.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	719
GI	7486453	Score	330
Exons	1..719		
GI Descrip.	hypothetical protein F4I10.90 - Arabidopsis thaliana gi|4455330|emb|CAB36790.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270264|emb|CAB80033.1| (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	57727	Seq. ID	OJ000330_32.0419.C6
Gene No.	120777	Strand	-
Start	1	End	831
Name	OJ000330_32.0419.C6.o1.gs	Method	GENSCAN
Start	21	End	757
GI	none	Score	.41
Exons	21..83, 98..757		

Seq. No.	57727	Seq. ID	OJ000330_32.0419.C6
Gene No.	120777	Strand	-
Start	1	End	831
Name	OJ000330_32.0419.C6.o1.gp	Method	AAT/GAP
Start	576	End	831
GI	2442502	Score	472
Exons	576..831		

Seq. No.	57727	Seq. ID	OJ000330_32.0419.C6
Gene No.	120778	Strand	-
Start	2053	End	2193
Name	OJ000330_32.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	338	End	712
GI	none	Score	66
Exons	338..400, 339..401, 467..529, 509..712, 528..593		

Seq. No.	57727	Seq. ID	OJ000330_32.0419.C6
Gene No.	120778	Strand	-
Start	2053	End	2193
Name	OJ000330_32.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	527	End	700
GI	none	Score	205
Exons	527..700		

Seq. No.	57727	Seq. ID	OJ000330_32.0419.C6
Gene No.	120778	Strand	-
Start	2053	End	2193
Name	OJ000330_32.0419.C6.o2.gs	Method	GENSCAN
Start	2053	End	2193
GI	none	Score	.96
Exons	2053..2193		

Seq. No.	57728	Seq. ID	OJ000330_32.0419.C7
Gene No.	120779	Strand	+
Start	412	End	6703
Name	OJ000330_32.0419.C7.o1.gs	Method	GENSCAN
Start	412	End	6703
GI	none	Score	.5
Exons	412..463, 2543..2653, 4325..4618, 6519..6703		

Seq. No.	57729	Seq. ID	OJ000330_32.0419.C8
Gene No.	120780	Strand	-
Start	644	End	990
Name	OJ000330_32.0419.C8.o1.gp	Method	AAT/GAP
Start	644	End	990
GI	uC-osf1cyp003h11b1	Score	548
Exons	644..990		
GI Descrip.	'131332/sp|P09449|PSBH_ORYSA 1.0e-09 PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi_72716_pir__F2RZ0P photosystem II phosphoprotein psbH - rice chloroplast >gi_11953_emb_CAA31204_ (X12695) 10 kD phosphoprotein (AA 1 - 73) [Oryza sativa] >gi_12016_emb_CAA33976_ (X15901) PSII 10kDa phosphoprotein [Oryza sativa] >gi_226635_prf__1603356BJ photosystem II 10kD phosphoprotein [Oryza sativa]'		

Seq. No.	57729	Seq. ID	OJ000330_32.0419.C8
Gene No.	120781	Strand	-
Start	1182	End	1611
Name	OJ000330_32.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	665	End	944
GI	none	Score	52
Exons	665..682, 669..692, 680..721, 681..749, 681..749, 689..754, 740..793, 744..791, 757..792, 793..825, 796..912, 797..877, 871..912, 906..944, 907..942		

Seq. No.	57729	Seq. ID	OJ000330_32.0419.C8
Gene No.	120781	Strand	-
Start	1182	End	1611
Name	OJ000330_32.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1169	End	1443
GI	none	Score	121
Exons	1169..1342, 1170..1316, 1181..1438, 1186..1443, 1189..1443		

Seq. No.	57729	Seq. ID	OJ000330_32.0419.C8
Gene No.	120781	Strand	-
Start	1182	End	1611
Name	OJ000330_32.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	1170	End	1443
GI	none	Score	82
Exons	1170..1322, 1180..1392, 1183..1443, 1187..1429		

Seq. No.	57729	Seq. ID	OJ000330_32.0419.C8
Gene No.	120781	Strand	-
Start	1182	End	1611
Name	OJ000330_32.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1181	End	1447
GI	none	Score	336
Exons	1181..1447, 1186..1446, 1187..1447		

Seq. No.	57729	Seq. ID	OJ000330_32.0419.C8
Gene No.	120781	Strand	-
Start	1182	End	1611
Name	OJ000330_32.0419.C8.o1.np	Method	AAT/NAP
Start	1182	End	1611
GI	7486447	Score	336
Exons	1182..1446, 1519..1611		
GI Descrip.	hypothetical protein F4I10.170 - Arabidopsis thaliana		

gi|4455338|emb|CAB36798.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270272|emb|CAB80041.1| (AL161583) putative protein [Arabidopsis thaliana]

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120782	Strand	+
Start	2536	End	3069
Name	OJ000330_32.0419.C9.o2.gs	Method	GENSCAN
Start	2536	End	3069
GI	none	Score	.55
Exons	2536..3069		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120783	Strand	+
Start	8186	End	10391
Name	OJ000330_32.0419.C9.o4.gs	Method	GENSCAN
Start	8186	End	10391
GI	none	Score	.57
Exons	8186..8356, 8756..8905, 10293..10391		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120784	Strand	-
Start	1	End	1313
Name	OJ000330_32.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1313
GI	7228442	Score	1832
Exons	1..1313		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120784	Strand	-
Start	1	End	1313
Name	OJ000330_32.0419.C9.o1.gs	Method	GENSCAN
Start	256	End	1313
GI	none	Score	.87
Exons	256..472, 497..1313		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120785	Strand	-
Start	5705	End	6577
Name	OJ000330_32.0419.C9.o3.gs	Method	GENSCAN
Start	5705	End	6577
GI	none	Score	.48
Exons	5705..5858, 5863..6093, 6099..6237, 6430..6577		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120786	Strand	-
Start	12390	End	12925
Name	OJ000330_32.0419.C9.o1.gp	Method	AAT/GAP
Start	12390	End	12925
GI	LIB3475-006-P1-K1-D9	Score	561
Exons	12390..12453, 12528..12925		
GI Descrip.	'5923669/gb|AAD56320.1|AC009326_7 2.0e-09 (AC009326) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120786	Strand	-
Start	12390	End	12925
Name	OJ000330_32.0419.C9.o2.gp	Method	AAT/GAP
Start	12522	End	12925
GI	LIB3475-006-P1-K1-D9	Score	561
Exons	12522..12925		
GI Descrip.	'5923669/gb|AAD56320.1|AC009326_7 2.0e-09 (AC009326) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120787	Strand	-
Start	15510	End	21803
Name	OJ000330_32.0419.C9.o3.np	Method	AAT/NAP
Start	15510	End	21425
GI	4584685	Score	335
Exons	15510..15769, 21207..21425		
GI Descrip.	(AJ237754) putative lectin [Hordeum vulgare]		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120787	Strand	-
Start	15510	End	21803
Name	OJ000330_32.0419.C9.o6.gs	Method	GENSCAN
Start	20895	End	21803
GI	none	Score	.92
Exons	20895..21539, 21663..21803		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120788	Strand	-
Start	23237	End	26157
Name	OJ000330_32.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	2622	End	9001
GI	none	Score	98
Exons	2622..2696, 2623..2733, 2707..2805, 2713..2808, 2872..2907, 2919..3041, 2920..3054, 8828..8863, 8924..9001		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120788	Strand	-
Start	23237	End	26157
Name	OJ000330_32.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	15531	End	21407
GI	none	Score	123
Exons	15531..15716, 15532..15717, 15905..15967, 15970..16062, 16051..16092, 20919..20948, 21006..21104, 21010..21105, 21219..21266, 21270..21386, 21375..21407		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120788	Strand	-
Start	23237	End	26157
Name	OJ000330_32.0419.C9.o4.np	Method	AAT/NAP
Start	23136	End	24506
GI	5922628	Score	61
Exons	23136..23356, 24444..24506		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016861|dbj|BAA85204.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	57730	Seq. ID	OJ000330_32.0419.C9
Gene No.	120788	Strand	-
Start	23237	End	26157
Name	OJ000330_32.0419.C9.o7.gs	Method	GENSCAN
Start	23237	End	26157
GI	none	Score	.42
Exons	23237..23323, 25797..25918, 26017..26157		

Seq. No.	57731	Seq. ID	OJ000330_32.0419.C11
Gene No.	120789	Strand	-
Start	1	End	1529
Name	OJ000330_32.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1529
GI	7486447	Score	790
Exons	1..65, 230..353, 475..806, 900..1087, 1479..1529		
GI Descrip.	hypothetical protein F4I10.170 - Arabidopsis thaliana gi|4455338|emb|CAB36798.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270272|emb|CAB80041.1| (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	57731	Seq. ID	OJ000330_32.0419.C11
Gene No.	120789	Strand	-
Start	1	End	1529
Name	OJ000330_32.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	222	End	701
GI	none	Score	87
Exons	222..353, 227..352, 304..366, 306..359, 428..601, 474..701, 475..699		

Seq. No.	57731	Seq. ID	OJ000330_32.0419.C11
Gene No.	120789	Strand	-
Start	1	End	1529
Name	OJ000330_32.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	248	End	797
GI	none	Score	273
Exons	248..352, 474..701, 475..705, 699..797, 700..783		

Seq. No.	57731	Seq. ID	OJ000330_32.0419.C11
Gene No.	120789	Strand	-
Start	1	End	1529
Name	OJ000330_32.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	469	End	1022
GI	none	Score	243
Exons	469..696, 472..702, 474..809, 718..792, 900..1022, 907..984		

Seq. No.	57731	Seq. ID	OJ000330_32.0419.C11
Gene No.	120789	Strand	-
Start	1	End	1529
Name	OJ000330_32.0419.C11.o1.gs	Method	GENSCAN
Start	1028	End	1519
GI	none	Score	.79
Exons	1028..1519		

Seq. No.	57732	Seq. ID	OJ000330_32.0419.C12
Gene No.	120790	Strand	-
Start	1	End	2401
Name	OJ000330_32.0419.C12.o1.np	Method	AAT/NAP

Start	1	End	2401
GI	7486447	Score	1160
Exons	1..226, 306..459, 651..1415, 1800..1926, 1975..2401		
GI Descrip.	hypothetical protein F4I10.170 - Arabidopsis thaliana gi|4455338|emb|CAB36798.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270272|emb|CAB80041.1| (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	57732	Seq. ID	OJ000330_32.0419.C12
Gene No.	120790	Strand	-
Start	1	End	2401
Name	OJ000330_32.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	89	End	710
GI	none	Score	80
Exons	89..229, 90..230, 90..230, 292..483, 292..450, 306..461, 651..710, 653..709		

Seq. No.	57732	Seq. ID	OJ000330_32.0419.C12
Gene No.	120790	Strand	-
Start	1	End	2401
Name	OJ000330_32.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	116	End	802
GI	none	Score	126
Exons	116..229, 258..461, 304..462, 651..797, 653..802		

Seq. No.	57732	Seq. ID	OJ000330_32.0419.C12
Gene No.	120790	Strand	-
Start	1	End	2401
Name	OJ000330_32.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	390	End	935
GI	none	Score	78
Exons	390..461, 391..462, 651..728, 653..727, 710..784, 711..785, 797..907, 798..935		

Seq. No.	57733	Seq. ID	OJ000330_32.0419.C15
Gene No.	120791	Strand	-
Start	185	End	623
Name	OJ000330_32.0419.C15.o1.gs	Method	GENSCAN
Start	185	End	623
GI	none	Score	.86
Exons	185..374, 617..623		

Seq. No.	57734	Seq. ID	OJ000330_32.0419.C16
Gene No.	120792	Strand	-
Start	1340	End	3163
Name	OJ000330_32.0419.C16.o1.np	Method	AAT/NAP
Start	999	End	3052
GI	5091511	Score	184
Exons	999..1041, 2482..3052		
GI Descrip.	(AB023482) Similar to Arabidopsis thaliana RING-H2 finger protein RHX1a mRNA, partial cds.(AF079184) [Oryza sativa]		

Seq. No.	57734	Seq. ID	OJ000330_32.0419.C16
Gene No.	120792	Strand	-
Start	1340	End	3163
Name	OJ000330_32.0419.C16.o1.gs	Method	GENSCAN
Start	1340	End	3012

GI	none	Score	.62
Exons	1340..1503, 2179..2801, 2810..3012		

Seq. No.	57734	Seq. ID	OJ000330_32.0419.C16
Gene No.	120792	Strand	-
Start	1340	End	3163
Name	OJ000330_32.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	2477	End	2699
GI	none	Score	37
Exons	2477..2503, 2478..2504, 2564..2686, 2574..2699, 2576..2695		

Seq. No.	57734	Seq. ID	OJ000330_32.0419.C16
Gene No.	120792	Strand	-
Start	1340	End	3163
Name	OJ000330_32.0419.C16.o1.gp	Method	AAT/GAP
Start	2891	End	3163
GI	none	Score	522
Exons	2891..3163		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120793	Strand	+
Start	5232	End	12231
Name	OJ000330_32.0419.C17.o2.gs	Method	GENSCAN
Start	5232	End	12067
GI	none	Score	.57
Exons	5232..5602, 7563..7719, 8253..8286, 9835..9929, 10085..10227, 11502..11527, 11697..11840, 11928..12067		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120793	Strand	+
Start	5232	End	12231
Name	OJ000330_32.0419.C17.o2.np	Method	AAT/NAP
Start	9935	End	12231
GI	6523103	Score	195
Exons	9935..9983, 11950..12231		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120794	Strand	-
Start	1	End	3810
Name	OJ000330_32.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	3496
GI	2130141	Score	996
Exons	1..275, 538..2027, 2112..2571, 3379..3496		
GI Descrip.	mudrA protein - maize transposon MuDR gi|540581 (M76978) mudrA [Zea mays] gi|595816 (U14597) mudrA gene product [Zea mays]		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120794	Strand	-
Start	1	End	3810
Name	OJ000330_32.0419.C17.o4.tm	Method	TBLASTX:Maize
Start	585	End	905
GI	none	Score	84
Exons	585..758, 586..762, 783..905		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120794	Strand	-

Start	1	End	3810
Name	OJ000330_32.0419.C17.o1.gs	Method	GENSCAN
Start	617	End	3810
GI	none	Score	.66
Exons	617..937, 979..1169, 1438..1645, 1826..2018, 2112..2429, 2508..2994, 3103..3485, 3775..3810		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120794	Strand	-
Start	1	End	3810
Name	OJ000330_32.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1019	End	1649
GI	none	Score	46
Exons	1019..1324, 1058..1276, 1301..1366, 1305..1367, 1374..1649, 1375..1644		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120794	Strand	-
Start	1	End	3810
Name	OJ000330_32.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	1653	End	2021
GI	none	Score	163
Exons	1653..2021, 1654..2004		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120794	Strand	-
Start	1	End	3810
Name	OJ000330_32.0419.C17.o2.tc	Method	TBLASTX:Cress
Start	1776	End	2282
GI	none	Score	133
Exons	1776..1997, 2109..2282		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120795	Strand	
Start	11967	End	12229
Name	OJ000330_32.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	11967	End	12228
GI	none	Score	176
Exons	11967..12134, 11969..12133, 12135..12215, 12136..12228		

Seq. No.	57735	Seq. ID	OJ000330_32.0419.C17
Gene No.	120795	Strand	
Start	11967	End	12229
Name	OJ000330_32.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	12002	End	12229
GI	none	Score	131
Exons	12002..12133, 12003..12134, 12011..12136, 12015..12155, 12135..12224, 12136..12228, 12149..12229		

Seq. No.	57736	Seq. ID	OJ000330_32.0419.C18
Gene No.	120796	Strand	-
Start	1	End	707
Name	OJ000330_32.0419.C18.o1.gp	Method	AAT/GAP
Start	1	End	497
GI	uC-osflm202111b03b1	Score	966
Exons	1..497		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450		

[Arabidopsis thaliana]'

Seq. No.	57736	Seq. ID	OJ000330_32.0419.C18
Gene No.	120796	Strand	-
Start	1	End	707
Name	OJ000330_32.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	707
GI	7486447	Score	274
Exons	1..138, 167..707		
GI Descrip.	hypothetical protein F4I10.170 - Arabidopsis thaliana gi|4455338|emb|CAB36798.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270272|emb|CAB80041.1| (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	57736	Seq. ID	OJ000330_32.0419.C18
Gene No.	120796	Strand	-
Start	1	End	707
Name	OJ000330_32.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	700
GI	none	Score	268
Exons	1..231, 2..232, 3..233, 217..627, 235..366, 236..625, 236..658, 336..656, 621..698, 622..699, 623..700, 623..700		

Seq. No.	57736	Seq. ID	OJ000330_32.0419.C18
Gene No.	120796	Strand	-
Start	1	End	707
Name	OJ000330_32.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	62	End	502
GI	none	Score	133
Exons	62..235, 63..236, 269..502, 342..494		

Seq. No.	57736	Seq. ID	OJ000330_32.0419.C18
Gene No.	120796	Strand	-
Start	1	End	707
Name	OJ000330_32.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	132	End	583
GI	none	Score	46
Exons	132..233, 293..502, 296..397, 322..513, 351..503, 494..583		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120797	Strand	+
Start	181	End	248
Name	OJ000310_32.0419.C1.o1.gs	Method	GENSCAN
Start	181	End	248
GI	none	Score	.78
Exons	181..248		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120798	Strand	+
Start	1719	End	2759
Name	OJ000310_32.0419.C1.o3.gs	Method	GENSCAN
Start	1719	End	2759
GI	none	Score	.98
Exons	1719..2759		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120799	Strand	-

Start	6340	End	8064
Name	OJ000310_32.0419.C1.o4.gs	Method	GENSCAN
Start	6340	End	8064
GI	none	Score	.5
Exons	6340..6568, 6604..6973, 7153..7444, 7548..7781, 7906..8064		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120800	Strand	-
Start	8150	End	12715
Name	OJ000310_32.0419.C1.o5.gs	Method	GENSCAN
Start	8150	End	12603
GI	none	Score	.63
Exons	8150..8437, 11165..11246, 11278..11461, 12369..12603		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120800	Strand	-
Start	8150	End	12715
Name	OJ000310_32.0419.C1.o1.gp	Method	AAT/GAP
Start	10908	End	12715
GI	24164_1.R1084	Score	1683
Exons	10908..11461, 12369..12715		
GI Descrip.	'2842486/emb|CAA16883.1| 3.0e-45 (AL021749) putative protein [Arabidopsis thaliana]'		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120801	Strand	-
Start	13748	End	15102
Name	OJ000310_32.0419.C1.o4.tm	Method	TBLASTX:Maize
Start	1806	End	2492
GI	none	Score	71
Exons	1806..1856, 1806..1856, 1929..2060, 2289..2330, 2379..2492, 2384..2491		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120801	Strand	-
Start	13748	End	15102
Name	OJ000310_32.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	2609	End	12689
GI	none	Score	55
Exons	2609..2698, 12352..12579, 12370..12435, 12374..12580, 12654..12689		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120801	Strand	-
Start	13748	End	15102
Name	OJ000310_32.0419.C1.o5.tm	Method	TBLASTX:Maize
Start	8019	End	9344
GI	none	Score	78
Exons	8019..8078, 8183..8320, 8189..8320, 9242..9343, 9261..9344		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120801	Strand	-
Start	13748	End	15102
Name	OJ000310_32.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	11273	End	12576
GI	none	Score	94
Exons	11273..11425, 11283..11462, 11283..11462, 11329..11463,		

12337..12576, 12370..12432, 12374..12433, 12488..12571

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120801	Strand	-
Start	13748	End	15102
Name	OJ000310_32.0419.C1.o2.tc	Method	TBLASTX:Cress
Start	11277	End	12580
GI	none	Score	120
Exons	11277..11462, 11283..11462, 11332..11529, 12352..12438, 12374..12427, 12541..12579, 12542..12580		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120801	Strand	-
Start	13748	End	15102
Name	OJ000310_32.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	11283	End	12580
GI	none	Score	158
Exons	11283..11462, 11283..11462, 11308..11463, 11332..11463, 12362..12439, 12370..12438, 12478..12579, 12485..12580		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120801	Strand	-
Start	13748	End	15102
Name	OJ000310_32.0419.C1.o2.gp	Method	AAT/GAP
Start	13748	End	15102
GI	none	Score	612
Exons	13748..14058, 15056..15102		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o3.tw	Method	TBLASTX:Wheat
Start	15072	End	15350
GI	none	Score	157
Exons	15072..15350, 15079..15345		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o4.tc	Method	TBLASTX:Cress
Start	15072	End	15351
GI	none	Score	89
Exons	15072..15350, 15075..15308, 15079..15351		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	15078	End	16044
GI	none	Score	446
Exons	15078..15428, 15079..15426, 15081..15428, 15428..16042, 15429..16043, 15429..16043, 15430..16044		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o1.ts	Method	TBLASTX:Soybean

Start	15078	End	16201
GI	none	Score	104
Exons	15078..15362, 15079..15345, 15108..15377, 15506..15658, 15632..16201, 15633..16196, 15665..16201		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o3.tc	Method	TBLASTX:Cress
Start	15641	End	15889
GI	none	Score	126
Exons	15641..15889, 15651..15836		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	15893	End	16201
GI	none	Score	208
Exons	15893..16201, 15894..16196		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	15905	End	16195
GI	none	Score	199
Exons	15905..16195, 15906..16181		

Seq. No.	57737	Seq. ID	OJ000310_32.0419.C1
Gene No.	120802	Strand	
Start	15072	End	16201
Name	OJ000310_32.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	16046	End	16201
GI	none	Score	195
Exons	16046..16201, 16047..16199, 16055..16201		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120803	Strand	+
Start	5633	End	6122
Name	OJ000310_32.0419.C2.o2.gs	Method	GENSCAN
Start	5633	End	6122
GI	none	Score	.68
Exons	5633..6009, 6107..6122		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120804	Strand	-
Start	1	End	3472
Name	OJ000310_32.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	3472
GI	4206209	Score	3325
Exons	1..2953, 2987..3472		
GI Descrip.	(AF071527) putative glucan synthase component [Arabidopsis thaliana] gi|4263042|gb|AAD15311| (AC005142) putative glucan synthase component [Arabidopsis thaliana]		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2

Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o5.tm	Method	TBLASTX:Maize
Start	5	End	595
GI	none	Score	62
Exons	5..31, 107..277, 392..520, 402..509, 533..595		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	206	End	862
GI	none	Score	90
Exons	206..304, 398..574, 402..560, 560..829, 563..862, 678..842		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	501	End	793
GI	none	Score	49
Exons	501..575, 503..592, 561..758, 583..780, 584..781, 584..793, 618..788		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	599	End	976
GI	none	Score	127
Exons	599..883, 599..928, 932..976		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o7.tm	Method	TBLASTX:Maize
Start	1415	End	1823
GI	none	Score	89
Exons	1415..1510, 1628..1822, 1629..1823		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	1673	End	1909
GI	none	Score	80
Exons	1673..1822, 1674..1823, 1740..1826, 1811..1909		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o8.tm	Method	TBLASTX:Maize
Start	1838	End	2065
GI	none	Score	96
Exons	1838..2065, 1839..2048		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2

Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	1925	End	2164
GI	none	Score	204
Exons	1925..2164		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	2378	End	2672
GI	none	Score	191
Exons	2378..2551, 2378..2572, 2379..2573, 2544..2672, 2546..2671		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	2846	End	3235
GI	none	Score	63
Exons	2846..2950, 2850..2948, 3008..3076, 3149..3235		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o1.gp	Method	AAT/GAP
Start	6963	End	7430
GI	none	Score	862
Exons	6963..7430		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	7177	End	7428
GI	none	Score	239
Exons	7177..7392, 7203..7229, 7210..7389, 7224..7391, 7233..7394, 7383..7421, 7389..7421, 7396..7428		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o3.gs	Method	GENSCAN
Start	7212	End	8603
GI	none	Score	.76
Exons	7212..8603		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o2.np	Method	AAT/NAP
Start	7215	End	9135
GI	7488230	Score	420
Exons	7215..7904, 8022..8143, 8387..8630, 9107..9135		
GI Descrip.	proline-rich protein F26K10.180 - Arabidopsis thaliana gi|7269684|emb|CAB79632.1| (AL161572) predicted proline-rich		

protein [Arabidopsis thaliana]

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o4.tm	Method	TBLASTX:Maize
Start	7949	End	8266
GI	none	Score	197
Exons	7949..8173, 7954..8181, 8048..8182, 8074..8178, 8181..8264, 8182..8265, 8195..8266		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o2.gp	Method	AAT/GAP
Start	8336	End	8597
GI	LIB3432-021-P1-K1-E6	Score	504
Exons	8336..8597		
GI Descrip.	'3128209 7.0e-40 (AC004077) unknown protein [Arabidopsis thaliana]'		

Seq. No.	57738	Seq. ID	OJ000310_32.0419.C2
Gene No.	120805	Strand	-
Start	7212	End	9135
Name	OJ000310_32.0419.C2.o6.tm	Method	TBLASTX:Maize
Start	8393	End	8600
GI	none	Score	86
Exons	8393..8500, 8394..8477, 8394..8507, 8396..8485, 8451..8594, 8452..8598, 8480..8545, 8481..8600		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1095
GI	3128209	Score	958
Exons	1..371, 500..843, 940..1095		
GI Descrip.	(AC004077) unknown protein [Arabidopsis thaliana]		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1	End	817
GI	none	Score	113
Exons	1..153, 2..154, 9..155, 153..380, 157..384, 494..700, 498..701, 707..817, 711..791		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1	End	1095
GI	none	Score	234
Exons	1..153, 2..154, 3..155, 153..380, 157..381, 158..385, 293..385, 494..862, 498..866, 934..969, 938..1093, 939..1094, 1048..1095		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	16	End	374
GI	none	Score	115
Exons	16..120, 144..374, 169..366		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o1.gp	Method	AAT/GAP
Start	99	End	624
GI	3090493	Score	696
Exons	99..379, 508..624		
GI Descrip.	3128209 7.0e-40 (AC004077) unknown protein [Arabidopsis thaliana]		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o1.gs	Method	GENSCAN
Start	117	End	1044
GI	none	Score	.78
Exons	117..379, 508..843, 940..1044		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	282	End	1022
GI	none	Score	53
Exons	282..335, 303..347, 304..369, 342..377, 507..698, 509..706, 510..710, 713..745, 963..1022		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	530	End	1048
GI	none	Score	84
Exons	530..697, 531..677, 710..844, 711..845, 935..1048		

Seq. No.	57739	Seq. ID	OJ000310_32.0419.C3
Gene No.	120806	Strand	-
Start	1	End	1095
Name	OJ000310_32.0419.C3.o2.gp	Method	AAT/GAP
Start	611	End	1095
GI	21784_1.R1084	Score	617
Exons	611..843, 940..1095		
GI Descrip.	'3128209 2.0e-23 (AC004077) unknown protein [Arabidopsis thaliana]'		

Seq. No.	57740	Seq. ID	OJ000310_32.0419.C4
Gene No.	120807	Strand	+
Start	200	End	2393
Name	OJ000310_32.0419.C4.o1.gs	Method	GENSCAN

Start	200	End	2393
GI	none	Score	.66
Exons	200..291, 346..496, 844..994, 1331..1389, 1509..1761, 1932..1978, 2048..2123, 2275..2393		

Seq. No.	57740	Seq. ID	OJ000310_32.0419.C4
Gene No.	120808	Strand	+
Start	5456	End	12991
Name	OJ000310_32.0419.C4.o1.np	Method	AAT/NAP
Start	5456	End	12755
GI	7486473	Score	171
Exons	5456..5582, 8857..8941, 10325..10419, 10557..10628, 10721..10800, 11329..11602, 11843..12005, 12535..12755		
GI Descrip.	hypothetical protein F6E13.10 - Arabidopsis thaliana gi|3212854|gb|AAC23405.1| (AC004005) unknown protein [Arabidopsis thaliana]		

Seq. No.	57740	Seq. ID	OJ000310_32.0419.C4
Gene No.	120808	Strand	+
Start	5456	End	12991
Name	OJ000310_32.0419.C4.o3.gp	Method	AAT/GAP
Start	8349	End	8625
GI	none	Score	534
Exons	8349..8625		

Seq. No.	57740	Seq. ID	OJ000310_32.0419.C4
Gene No.	120808	Strand	+
Start	5456	End	12991
Name	OJ000310_32.0419.C4.o4.gp	Method	AAT/GAP
Start	10946	End	12991
GI	37717_1.R1084	Score	1450
Exons	10946..10993, 11301..11348, 11440..11667, 11916..12014, 12628..12991		
GI Descrip.	'3212854 6.0e-11 (AC004005) unknown protein [Arabidopsis thaliana]'		

Seq. No.	57740	Seq. ID	OJ000310_32.0419.C4
Gene No.	120809	Strand	-
Start	1006	End	1070
Name	OJ000310_32.0419.C4.o1.gp	Method	AAT/GAP
Start	1006	End	1070
GI	2312838	Score	71
Exons	1006..1070		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	57740	Seq. ID	OJ000310_32.0419.C4
Gene No.	120810	Strand	-
Start	1576	End	1825
Name	OJ000310_32.0419.C4.o2.gp	Method	AAT/GAP
Start	1576	End	1825
GI	21784_1.R1084	Score	457
Exons	1576..1825		
GI Descrip.	'3128209 2.0e-23 (AC004077) unknown protein [Arabidopsis thaliana]'		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5

Gene No.	120811	Strand	+
Start	1	End	1371
Name	OJ000310_32.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1371
GI	5852084	Score	81
Exons	1..24, 1288..1371		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120812	Strand	+
Start	1854	End	5629
Name	OJ000310_32.0419.C5.o1.gs	Method	GENSCAN
Start	1854	End	5629
GI	none	Score	.77
Exons	1854..2275, 2280..2339, 3840..3931, 4075..4154, 5087..5629		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120813	Strand	+
Start	10153	End	11054
Name	OJ000310_32.0419.C5.o3.gs	Method	GENSCAN
Start	10153	End	11054
GI	none	Score	.81
Exons	10153..10551, 10722..11054		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120814	Strand	+
Start	12050	End	14042
Name	OJ000310_32.0419.C5.o4.np	Method	AAT/NAP
Start	12050	End	14042
GI	6006372	Score	109
Exons	12050..12083, 13840..14042		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120815	Strand	-
Start	7219	End	9881
Name	OJ000310_32.0419.C5.o2.gs	Method	GENSCAN
Start	7219	End	9831
GI	none	Score	.9
Exons	7219..7364, 8109..8235, 8654..9031, 9183..9273, 9404..9831		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120815	Strand	-
Start	7219	End	9881
Name	OJ000310_32.0419.C5.o2.np	Method	AAT/NAP
Start	7805	End	9881
GI	6735324	Score	423
Exons	7805..7950, 8109..8235, 9183..9881		
GI Descrip.	(AL137081) putative protein [Arabidopsis thaliana]		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120816	Strand	-
Start	12385	End	15761
Name	OJ000310_32.0419.C5.o4.gs	Method	GENSCAN
Start	12385	End	15761
GI	none	Score	.62
Exons	12385..12455, 12649..12777, 12839..13122, 13152..13249,		

13370..13494, 13583..13723, 13755..13887, 15657..15761

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120816	Strand	-
Start	12385	End	15761
Name	OJ000310_32.0419.C5.o3.np	Method	AAT/NAP
Start	12870	End	14998
GI	4138596	Score	643
Exons	12870..13249, 13370..13661, 14936..14998		
GI Descrip.	(Y16242) beta-amylase [Triticum aestivum]		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120817	Strand	-
Start	17524	End	17658
Name	OJ000310_32.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	7857	End	8241
GI	none	Score	65
Exons	7857..7949, 7883..7954, 7893..7955, 8096..8233, 8104..8241, 8106..8237, 8140..8241		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120817	Strand	-
Start	17524	End	17658
Name	OJ000310_32.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	8133	End	13612
GI	none	Score	56
Exons	8133..8231, 13175..13249, 13176..13247, 13178..13252, 13364..13513, 13383..13514, 13520..13612, 13551..13610		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120817	Strand	-
Start	17524	End	17658
Name	OJ000310_32.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	12852	End	13612
GI	none	Score	67
Exons	12852..12977, 12868..12963, 12963..13016, 12964..13032, 12978..13115, 13018..13095, 13090..13173, 13094..13174, 13127..13249, 13158..13253, 13364..13513, 13380..13514, 13523..13612, 13539..13610		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120817	Strand	-
Start	17524	End	17658
Name	OJ000310_32.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	12865	End	13612
GI	none	Score	124
Exons	12865..12939, 12868..12972, 12870..12977, 12870..12977, 12963..13016, 12964..13065, 12978..13115, 13018..13116, 13090..13173, 13094..13174, 13127..13249, 13128..13253, 13177..13251, 13364..13513, 13374..13514, 13520..13612, 13551..13610		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120817	Strand	-
Start	17524	End	17658
Name	OJ000310_32.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	12868	End	13691

GI	none	Score	82
Exons	12868..12963, 12870..12977, 12963..13016, 13017..13115, 13018..13095, 13090..13173, 13094..13174, 13127..13249, 13137..13247, 13361..13417, 13364..13513, 13374..13514, 13523..13609, 13539..13691		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120817	Strand	-
Start	17524	End	17658
Name	OJ000310_32.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	12906	End	13173
GI	none	Score	82
Exons	12906..12977, 12907..12969, 12963..13016, 12964..13032, 12978..13115, 13018..13119, 13090..13173, 13094..13168		

Seq. No.	57741	Seq. ID	OJ000310_32.0419.C5
Gene No.	120817	Strand	-
Start	17524	End	17658
Name	OJ000310_32.0419.C5.o5.gs	Method	GENSCAN
Start	17524	End	17658
GI	none	Score	.53
Exons	17524..17658		

Seq. No.	57742	Seq. ID	OJ000310_32.0419.C6
Gene No.	120818	Strand	+
Start	112	End	4927
Name	OJ000310_32.0419.C6.o1.gs	Method	GENSCAN
Start	112	End	4927
GI	none	Score	.67
Exons	112..761, 950..1085, 1217..1493, 1816..1910, 2397..2483, 2968..3016, 3168..3553, 4853..4927		

Seq. No.	57742	Seq. ID	OJ000310_32.0419.C6
Gene No.	120819	Strand	-
Start	8265	End	8990
Name	OJ000310_32.0419.C6.o2.gs	Method	GENSCAN
Start	8265	End	8981
GI	none	Score	1
Exons	8265..8981		

Seq. No.	57742	Seq. ID	OJ000310_32.0419.C6
Gene No.	120819	Strand	-
Start	8265	End	8990
Name	OJ000310_32.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	8334	End	8625
GI	none	Score	42
Exons	8334..8474, 8380..8475, 8493..8624, 8494..8625		

Seq. No.	57742	Seq. ID	OJ000310_32.0419.C6
Gene No.	120819	Strand	-
Start	8265	End	8990
Name	OJ000310_32.0419.C6.o1.np	Method	AAT/NAP
Start	8490	End	8894
GI	7267553	Score	206
Exons	8490..8894		
GI Descrip.	(AL161514) putative protein [Arabidopsis thaliana]		

Seq. No.	57742	Seq. ID	OJ000310_32.0419.C6
Gene No.	120819	Strand	-
Start	8265	End	8990
Name	OJ000310_32.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	8496	End	8639
GI	none	Score	122
Exons	8496..8639, 8497..8622		

Seq. No.	57742	Seq. ID	OJ000310_32.0419.C6
Gene No.	120819	Strand	-
Start	8265	End	8990
Name	OJ000310_32.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	8505	End	8738
GI	none	Score	87
Exons	8505..8642, 8506..8640, 8628..8738		

Seq. No.	57742	Seq. ID	OJ000310_32.0419.C6
Gene No.	120819	Strand	-
Start	8265	End	8990
Name	OJ000310_32.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	8676	End	8990
GI	none	Score	44
Exons	8676..8747, 8686..8721, 8799..8921, 8836..8922, 8898..8990, 8899..8982		

Seq. No.	57743	Seq. ID	OJ000310_32.0419.C7
Gene No.	120820	Strand	+
Start	1571	End	4227
Name	OJ000310_32.0419.C7.o1.gs	Method	GENSCAN
Start	1571	End	4227
GI	none	Score	.58
Exons	1571..1573, 1654..1972, 1990..2159, 2533..2734, 4121..4227		

Seq. No.	57743	Seq. ID	OJ000310_32.0419.C7
Gene No.	120821	Strand	-
Start	1616	End	4305
Name	OJ000310_32.0419.C7.o1.np	Method	AAT/NAP
Start	1616	End	4305
GI	7340909	Score	168
Exons	1616..1842, 2750..3005, 4262..4305		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	57743	Seq. ID	OJ000310_32.0419.C7
Gene No.	120822	Strand	-
Start	7090	End	8209
Name	OJ000310_32.0419.C7.o2.np	Method	AAT/NAP
Start	7090	End	8030
GI	3243274	Score	290
Exons	7090..8030		
GI Descrip.	(AF072134) TCP3 [Arabidopsis thaliana]		

Seq. No.	57743	Seq. ID	OJ000310_32.0419.C7
Gene No.	120822	Strand	-
Start	7090	End	8209
Name	OJ000310_32.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	7464	End	7951
GI	none	Score	62

Exons	7464..7514, 7559..7618, 7760..7942, 7766..7951, 7809..7946		
Seq. No.	57743	Seq. ID	OJ000310_32.0419.C7
Gene No.	120822	Strand	-
Start	7090	End	8209
Name	OJ000310_32.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	7763	End	7960
GI	5606956	Score	233
Exons	7763..7960		
GI Descrip.	-		
Seq. No.	57743	Seq. ID	OJ000310_32.0419.C7
Gene No.	120822	Strand	-
Start	7090	End	8209
Name	OJ000310_32.0419.C7.o2.gp	Method	AAT/GAP
Start	7896	End	8209
GI	2442643	Score	561
Exons	7896..8209		
Seq. No.	57744	Seq. ID	OJ000310_32.0419.C8
Gene No.	120823	Strand	+
Start	4962	End	6602
Name	OJ000310_32.0419.C8.o1.np	Method	AAT/NAP
Start	4962	End	6602
GI	7340909	Score	151
Exons	4962..4989, 6247..6602		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	57744	Seq. ID	OJ000310_32.0419.C8
Gene No.	120824	Strand	-
Start	1	End	52
Name	OJ000310_32.0419.C8.o1.gp	Method	AAT/GAP
Start	1	End	52
GI	77434_1.R1084	Score	83
Exons	1..52		
GI Descrip.	'2827528/emb|CAA16536.1| 2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'		
Seq. No.	57744	Seq. ID	OJ000310_32.0419.C8
Gene No.	120825	Strand	-
Start	3964	End	6554
Name	OJ000310_32.0419.C8.o1.gs	Method	GENSCAN
Start	3964	End	6554
GI	none	Score	.77
Exons	3964..4092, 4365..4412, 4676..4831, 5343..5461, 5686..5822, 5947..5964, 6439..6554		
Seq. No.	57745	Seq. ID	OJ000310_32.0419.C9
Gene No.	120826	Strand	-
Start	1	End	397
Name	OJ000310_32.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	397
GI	7340909	Score	101
Exons	1..106, 181..397		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	57746	Seq. ID	OJ000310_32.0419.C10

Gene No.	120827	Strand	+
Start	116	End	1414
Name	OJ000310_32.0419.C10.o1.gs	Method	GENSCAN
Start	116	End	1414
GI	none	Score	.82
Exons	116..236, 315..500, 615..827,	911..1414	

Seq. No.	57746	Seq. ID	OJ000310_32.0419.C10
Gene No.	120827	Strand	+
Start	116	End	1414
Name	OJ000310_32.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	116	End	406
GI	none	Score	138
Exons	116..235, 116..235, 117..272, 317..406	118..264, 316..405, 316..405,	

Seq. No.	57747	Seq. ID	OJ000310_32.0419.C13
Gene No.	120828	Strand	+
Start	609	End	752
Name	OJ000310_32.0419.C13.o1.gp	Method	AAT/GAP
Start	609	End	752
GI	none	Score	264
Exons	609..752		

Seq. No.	57747	Seq. ID	OJ000310_32.0419.C13
Gene No.	120829	Strand	-
Start	186	End	306
Name	OJ000310_32.0419.C13.o1.gs	Method	GENSCAN
Start	186	End	306
GI	none	Score	.4
Exons	186..306		

Seq. No.	57748	Seq. ID	OJ000310_32.0419.C14
Gene No.	120830	Strand	-
Start	438	End	1043
Name	OJ000310_32.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	434	End	723
GI	none	Score	251
Exons	434..718, 438..719, 445..723		

Seq. No.	57748	Seq. ID	OJ000310_32.0419.C14
Gene No.	120830	Strand	-
Start	438	End	1043
Name	OJ000310_32.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	434	End	744
GI	none	Score	53
Exons	434..493, 435..479, 482..721,	482..721, 535..744	

Seq. No.	57748	Seq. ID	OJ000310_32.0419.C14
Gene No.	120830	Strand	-
Start	438	End	1043
Name	OJ000310_32.0419.C14.o1.gp	Method	AAT/GAP
Start	438	End	662
GI	LIB3432-021-P1-K1-E6	Score	380
Exons	438..662		
GI Descrip.	'3128209 7.0e-40 (AC004077) unknown protein [Arabidopsis thaliana]'		

Seq. No.	57748	Seq. ID	OJ000310_32.0419.C14
Gene No.	120830	Strand	-
Start	438	End	1043
Name	OJ000310_32.0419.C14.o1.np	Method	AAT/NAP
Start	439	End	1043
GI	7488230	Score	141
Exons	439..721, 889..1043		
GI Descrip.	proline-rich protein F26K10.180 - Arabidopsis thaliana gi|7269684|emb|CAB79632.1| (AL161572) predicted proline-rich protein [Arabidopsis thaliana]		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	5472	End	5836
GI	none	Score	82
Exons	5472..5540, 5472..5543, 5611..5835, 5612..5836, 5613..5834		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o1.np	Method	AAT/NAP
Start	5546	End	8982
GI	6735376	Score	1108
Exons	5546..7507, 8959..8982		
GI Descrip.	(AL137082) putative protein [Arabidopsis thaliana]		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o2.np	Method	AAT/NAP
Start	5587	End	9029
GI	5734776	Score	536
Exons	5587..6122, 6510..6839, 7125..7459, 8993..9029		
GI Descrip.	(AC007980) 53021 [Arabidopsis thaliana]		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	5613	End	7237
GI	none	Score	110
Exons	5613..5933, 5621..5953, 5621..5953, 6077..6247, 6764..6937, 7082..7237		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	5681	End	7438
GI	none	Score	212
Exons	5681..5746, 5750..6211, 5751..6143, 6107..6325, 6599..6718, 6794..7018, 7060..7098, 7082..7357, 7385..7438		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15

Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	5709	End	7301
GI	none	Score	97
Exons	5709..5999, 5714..6013, 5714..6013, 6077..6319, 6605..6880, 6636..6839, 6764..7117, 7082..7300, 7155..7301		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	5843	End	7315
GI	none	Score	113
Exons	5843..5968, 5879..6034, 6053..6280, 7157..7315		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o1.gp	Method	AAT/GAP
Start	6294	End	6724
GI	286328	Score	849
Exons	6294..6724		
GI Descrip.	5923669/gb|AAD56320.1|AC009326_7 2.0e-09 (AC009326) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57749	Seq. ID	OJ000310_32.0419.C15
Gene No.	120831	Strand	-
Start	5546	End	9029
Name	OJ000310_32.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	6635	End	7012
GI	none	Score	191
Exons	6635..7012		

Seq. No.	57750	Seq. ID	OJ000310_32.0419.C16
Gene No.	120832	Strand	+
Start	1321	End	2660
Name	OJ000310_32.0419.C16.o1.gs	Method	GENSCAN
Start	1321	End	2660
GI	none	Score	.76
Exons	1321..1412, 2444..2660		

Seq. No.	57750	Seq. ID	OJ000310_32.0419.C16
Gene No.	120833	Strand	+
Start	4227	End	5596
Name	OJ000310_32.0419.C16.o3.gs	Method	GENSCAN
Start	4227	End	5596
GI	none	Score	.55
Exons	4227..4399, 4582..4851, 5482..5596		

Seq. No.	57750	Seq. ID	OJ000310_32.0419.C16
Gene No.	120834	Strand	-
Start	2758	End	3045
Name	OJ000310_32.0419.C16.o2.gs	Method	GENSCAN
Start	2758	End	3045
GI	none	Score	.93
Exons	2758..3045		

Seq. No.	57750	Seq. ID	OJ000310_32.0419.C16
Gene No.	120835	Strand	-
Start	5232	End	7405
Name	OJ000310_32.0419.C16.o1.gp	Method	AAT/GAP
Start	5232	End	6748
GI	53_1.R1084	Score	2428
Exons	5232..5596, 5682..5813, 5952..6748		
GI Descrip.	'2992160/dbj|BAA25325| 1.0e-116 (AB012392) MuDR-like element [Oryza sativa]'		

Seq. No.	57750	Seq. ID	OJ000310_32.0419.C16
Gene No.	120835	Strand	-
Start	5232	End	7405
Name	OJ000310_32.0419.C16.o1.np	Method	AAT/NAP
Start	5901	End	7405
GI	479357	Score	1133
Exons	5901..7405		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi|22375|emb|CAA44165| (X62251) ORF [Zea mays]		

Seq. No.	57750	Seq. ID	OJ000310_32.0419.C16
Gene No.	120835	Strand	-
Start	5232	End	7405
Name	OJ000310_32.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	6274	End	7056
GI	none	Score	113
Exons	6274..6327, 6379..6477, 6481..6711, 6521..6712, 6724..6783, 6790..7056, 6800..7036		

Seq. No.	57750	Seq. ID	OJ000310_32.0419.C16
Gene No.	120835	Strand	-
Start	5232	End	7405
Name	OJ000310_32.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	7108	End	7405
GI	none	Score	144
Exons	7108..7278, 7109..7276, 7283..7405, 7299..7400		

Seq. No.	57751	Seq. ID	OJ000310_32.0419.C18
Gene No.	120836	Strand	-
Start	276	End	522
Name	OJ000310_32.0419.C18.o1.gs	Method	GENSCAN
Start	276	End	522
GI	none	Score	.75
Exons	276..345, 351..522		

Seq. No.	57752	Seq. ID	OJ000310_32.0419.C19
Gene No.	120837	Strand	+
Start	120	End	278
Name	OJ000310_32.0419.C19.o1.gs	Method	GENSCAN
Start	120	End	278
GI	none	Score	.43
Exons	120..278		

Seq. No.	57753	Seq. ID	OJ000330_33.0419.C1
Gene No.	120838	Strand	+
Start	1997	End	2075

Name	OJ000330_33.0419.C1.o1.gp	Method	AAT/GAP
Start	1997	End	2075
GI	LIB3477-003-P1-K1-E9	Score	93
Exons	1997..2075		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	57754	Seq. ID	OJ000330_33.0419.C2
Gene No.	120839	Strand	+
Start	232	End	1381
Name	OJ000330_33.0419.C2.o1.gs	Method	GENSCAN
Start	232	End	1381
GI	none	Score	.65
Exons	232..379, 1301..1381		

Seq. No.	57754	Seq. ID	OJ000330_33.0419.C2
Gene No.	120840	Strand	-
Start	449	End	1330
Name	OJ000330_33.0419.C2.o1.np	Method	AAT/NAP
Start	449	End	1330
GI	6721507	Score	163
Exons	449..527, 734..795, 1068..1330		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	57755	Seq. ID	OJ000330_33.0419.C6
Gene No.	120841	Strand	+
Start	1	End	955
Name	OJ000330_33.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	955
GI	6983860	Score	741
Exons	1..597, 641..955		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	57755	Seq. ID	OJ000330_33.0419.C6
Gene No.	120841	Strand	+
Start	1	End	955
Name	OJ000330_33.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	168	End	519
GI	none	Score	294
Exons	168..362, 169..519		

Seq. No.	57755	Seq. ID	OJ000330_33.0419.C6
Gene No.	120841	Strand	+
Start	1	End	955
Name	OJ000330_33.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	169	End	474
GI	none	Score	230
Exons	169..474, 183..299		

Seq. No.	57755	Seq. ID	OJ000330_33.0419.C6
Gene No.	120841	Strand	+
Start	1	End	955
Name	OJ000330_33.0419.C6.o1.gs	Method	GENSCAN
Start	202	End	889
GI	none	Score	.51

Exons	202..889		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	1777
GI	4680179	Score	2500
Exons	1..1777		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	2	End	323
GI	none	Score	435
Exons	2..310, 3..314, 6..323		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	2	End	311
GI	none	Score	474
Exons	2..310, 3..311		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o1.gs	Method	GENSCAN
Start	15	End	1758
GI	none	Score	.77
Exons	15..507, 577..1221, 1223..1758		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	314	End	881
GI	none	Score	637
Exons	314..880, 345..881		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	588	End	905
GI	none	Score	90
Exons	588..761, 762..905, 764..904		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	669	End	929
GI	none	Score	296

Exons	669..929, 674..928		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	728	End	1019
GI	none	Score	374
Exons	728..1015, 729..1019		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	888	End	1515
GI	none	Score	412
Exons	888..1262, 944..1264, 1266..1514, 1267..1515		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1068	End	1668
GI	none	Score	221
Exons	1068..1223, 1076..1210, 1227..1262, 1266..1652, 1267..1668		
Seq. No.	57756	Seq. ID	OJ000330_33.0419.C7
Gene No.	120842	Strand	+
Start	1	End	1777
Name	OJ000330_33.0419.C7.o4.tw	Method	TBLASTX:Wheat
Start	1515	End	1776
GI	none	Score	272
Exons	1515..1748, 1516..1776		
Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	5546
GI	2462763	Score	577
Exons	1..22, 2812..2992, 3080..3152, 5201..5546		
GI Descrip.	(AC002292) Highly similar to auxin-induced protein (aldo/keto reductase family) [Arabidopsis thaliana]		
Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o1.gs	Method	GENSCAN
Start	133	End	4791
GI	none	Score	.43
Exons	133..196, 1326..1367, 1392..1461, 2820..2992, 3080..3309, 4673..4791		
Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o1.ts	Method	TBLASTX:Soybean

Start	2806	End	5304
GI	none	Score	86
Exons	2806..2919, 2808..2993, 2808..2993, 3077..3124, 5179..5304, 5192..5302		

Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	2808	End	5364
GI	none	Score	288
Exons	2808..2993, 2821..2907, 2861..2992, 3074..3100, 3078..3119, 5179..5364, 5192..5359		

Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	2808	End	3119
GI	none	Score	295
Exons	2808..2993, 2820..2990, 2861..2992, 3074..3100, 3078..3119		

Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	3763	End	4489
GI	none	Score	38
Exons	3763..3843, 3840..3998, 3841..3984, 3841..3999, 3853..4068, 3871..4035, 3874..4026, 3876..3995, 3877..4005, 3884..4030, 3891..4040, 3892..4041, 3972..4049, 3979..4056, 4032..4124, 4032..4124, 4036..4125, 4047..4220, 4050..4208, 4054..4212, 4062..4217, 4063..4212, 4072..4227, 4072..4254, 4074..4226, 4075..4227, 4078..4257, 4087..4245, 4099..4245, 4103..4132, 4104..4238, 4106..4234, 4171..4395, 4191..4361, 4221..4340, 4223..4342, 4237..4344, 4244..4345, 4248..4349, 4253..4393, 4259..4360, 4260..4352, 4261..4359, 4262..4360, 4275..4358, 4367..4459, 4395..4442, 4414..4488, 4415..4489, 4416..4472, 4419..4487		

Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	5191	End	5548
GI	none	Score	110
Exons	5191..5343, 5191..5358, 5192..5359, 5370..5408, 5376..5468, 5463..5483, 5489..5548, 5490..5540		

Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o2.gs	Method	GENSCAN
Start	5267	End	5476
GI	none	Score	.8
Exons	5267..5476		

Seq. No.	57757	Seq. ID	OJ000330_33.0419.C14
Gene No.	120843	Strand	+
Start	1	End	5548
Name	OJ000330_33.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	5306	End	5542
GI	none	Score	96
Exons	5306..5359, 5376..5540, 5468..5542		

Seq. No.	57758	Seq. ID	OJ000330_33.0419.C15
Gene No.	120844	Strand	-
Start	200	End	354
Name	OJ000330_33.0419.C15.o1.gs	Method	GENSCAN
Start	200	End	354
GI	none	Score	.42
Exons	200..354		

Seq. No.	57759	Seq. ID	OJ000330_33.0419.C16
Gene No.	120845	Strand	+
Start	82	End	2216
Name	OJ000330_33.0419.C16.o1.gs	Method	GENSCAN
Start	82	End	1992
GI	none	Score	.65
Exons	82..944, 999..1481, 1554..1992		

Seq. No.	57759	Seq. ID	OJ000330_33.0419.C16
Gene No.	120845	Strand	+
Start	82	End	2216
Name	OJ000330_33.0419.C16.o1.np	Method	AAT/NAP
Start	82	End	2216
GI	7228442	Score	1916
Exons	82..1926, 2191..2216		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	57759	Seq. ID	OJ000330_33.0419.C16
Gene No.	120845	Strand	+
Start	82	End	2216
Name	OJ000330_33.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1117	End	1713
GI	none	Score	352
Exons	1117..1584, 1122..1595, 1642..1713		

Seq. No.	57759	Seq. ID	OJ000330_33.0419.C16
Gene No.	120845	Strand	+
Start	82	End	2216
Name	OJ000330_33.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	1413	End	1788
GI	none	Score	173
Exons	1413..1559, 1414..1590, 1614..1706, 1615..1788, 1637..1777		

Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120846	Strand	+
Start	138	End	6905
Name	OJ000330_33.0419.C17.o1.np	Method	AAT/NAP
Start	138	End	2421
GI	4033606	Score	139

Exons	138..259, 1148..1494, 1598..1667, 2330..2421		
GI Descrip.	(AB008227) Extensin [Adiantum capillus-veneris]		
Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120846	Strand	+
Start	138	End	6905
Name	OJ000330_33.0419.C17.o1.gs	Method	GENSCAN
Start	467	End	6905
GI	none	Score	.45
Exons	467..527, 671..770, 1159..1250, 1618..2100, 2183..2324, 2406..2542, 4572..4665, 4956..5894, 6390..6463, 6539..6693, 6792..6905		
Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120846	Strand	+
Start	138	End	6905
Name	OJ000330_33.0419.C17.o3.np	Method	AAT/NAP
Start	2196	End	6401
GI	7228442	Score	864
Exons	2196..2250, 5006..5817, 6220..6401		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		
Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120846	Strand	+
Start	138	End	6905
Name	OJ000330_33.0419.C17.o1.gp	Method	AAT/GAP
Start	2882	End	2962
GI	LIB3434-017-P1-K1-F5	Score	88
Exons	2882..2962		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 5.0e-20 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120846	Strand	+
Start	138	End	6905
Name	OJ000330_33.0419.C17.o4.np	Method	AAT/NAP
Start	5031	End	6818
GI	6815062	Score	242
Exons	5031..5754, 6272..6490, 6607..6818		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		
Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120847	Strand	-
Start	3358	End	6935
Name	OJ000330_33.0419.C17.o2.np	Method	AAT/NAP
Start	3358	End	6935
GI	4680183	Score	137
Exons	3358..3481, 6881..6935		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120847	Strand	-
Start	3358	End	6935

Name	OJ000330_33.0419.C17.o2.gp	Method	AAT/GAP
Start	4080	End	4174
GI	uC-osflcyp088b12b1	Score	132
Exons	4080..4174		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	57760	Seq. ID	OJ000330_33.0419.C17
Gene No.	120847	Strand	-
Start	3358	End	6935
Name	OJ000330_33.0419.C17.o3.gp	Method	AAT/GAP
Start	4748	End	4856
GI	uC-osflcyp088b12b1	Score	156
Exons	4748..4856		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	57761	Seq. ID	OJ000330_33.0419.C18
Gene No.	120848	Strand	-
Start	1056	End	1594
Name	OJ000330_33.0419.C18.o1.gs	Method	GENSCAN
Start	1056	End	1594
GI	none	Score	.66
Exons	1056..1594		

Seq. No.	57762	Seq. ID	OJ000330_33.0419.C20
Gene No.	120849	Strand	+
Start	792	End	992
Name	OJ000330_33.0419.C20.o1.gs	Method	GENSCAN
Start	792	End	992
GI	none	Score	.6
Exons	792..992		

Seq. No.	57762	Seq. ID	OJ000330_33.0419.C20
Gene No.	120850	Strand	-
Start	346	End	938
Name	OJ000330_33.0419.C20.o1.np	Method	AAT/NAP
Start	346	End	938
GI	6721559	Score	279
Exons	346..938		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815084|dbj|BAA90370.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	57763	Seq. ID	OJ000330_33.0419.C25
Gene No.	120851	Strand	-
Start	39	End	848
Name	OJ000330_33.0419.C25.o1.gs	Method	GENSCAN
Start	39	End	848
GI	none	Score	.93
Exons	39..848		

Seq. No.	57764	Seq. ID	OJ000330_33.0419.C26
Gene No.	120852	Strand	+
Start	1	End	446
Name	OJ000330_33.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	443

GI	6983860	Score	676
Exons	1..443		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	57764	Seq. ID	OJ000330_33.0419.C26
Gene No.	120852	Strand	+
Start	1	End	446
Name	OJ000330_33.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	9	End	395
GI	none	Score	421
Exons	9..395, 11..376		

Seq. No.	57764	Seq. ID	OJ000330_33.0419.C26
Gene No.	120852	Strand	+
Start	1	End	446
Name	OJ000330_33.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	42	End	302
GI	none	Score	268
Exons	42..302, 53..301		

Seq. No.	57764	Seq. ID	OJ000330_33.0419.C26
Gene No.	120852	Strand	+
Start	1	End	446
Name	OJ000330_33.0419.C26.o1.gs	Method	GENSCAN
Start	228	End	446
GI	none	Score	.97
Exons	228..446		

Seq. No.	57765	Seq. ID	OJ000330_33.0419.C27
Gene No.	120853	Strand	+
Start	1	End	2449
Name	OJ000330_33.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	180
GI	2443320	Score	238
Exons	1..180		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	57765	Seq. ID	OJ000330_33.0419.C27
Gene No.	120853	Strand	+
Start	1	End	2449
Name	OJ000330_33.0419.C27.o1.gs	Method	GENSCAN
Start	49	End	1339
GI	none	Score	.78
Exons	49..174, 889..1157, 1189..1339		

Seq. No.	57765	Seq. ID	OJ000330_33.0419.C27
Gene No.	120853	Strand	+
Start	1	End	2449
Name	OJ000330_33.0419.C27.o3.np	Method	AAT/NAP
Start	306	End	2449
GI	6063554	Score	179
Exons	306..330, 902..1182, 2275..2449		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57765	Seq. ID	OJ000330_33.0419.C27
Gene No.	120853	Strand	+
Start	1	End	2449
Name	OJ000330_33.0419.C27.o2.np	Method	AAT/NAP
Start	854	End	1751
GI	5852178	Score	368
Exons	854..1128, 1159..1284, 1648..1751		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	57765	Seq. ID	OJ000330_33.0419.C27
Gene No.	120854	Strand	-
Start	1802	End	2921
Name	OJ000330_33.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	1	End	180
GI	none	Score	199
Exons	1..180, 3..179, 4..180		

Seq. No.	57765	Seq. ID	OJ000330_33.0419.C27
Gene No.	120854	Strand	-
Start	1802	End	2921
Name	OJ000330_33.0419.C27.o2.gs	Method	GENSCAN
Start	1802	End	2921
GI	none	Score	.54
Exons	1802..1878, 2858..2921		

Seq. No.	57766	Seq. ID	OJ000330_33.0419.C28
Gene No.	120855	Strand	+
Start	1	End	382
Name	OJ000330_33.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	382
GI	6063554	Score	151
Exons	1..22, 206..382		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57766	Seq. ID	OJ000330_33.0419.C28
Gene No.	120856	Strand	+
Start	761	End	2014
Name	OJ000330_33.0419.C28.o1.gp	Method	AAT/GAP
Start	761	End	935
GI	LIB3433-026-P1-K1-C1	Score	259
Exons	761..935		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	57766	Seq. ID	OJ000330_33.0419.C28
Gene No.	120856	Strand	+
Start	761	End	2014
Name	OJ000330_33.0419.C28.o1.gs	Method	GENSCAN
Start	781	End	1975
GI	none	Score	.42
Exons	781..789, 1573..1705, 1800..1975		

Seq. No.	57766	Seq. ID	OJ000330_33.0419.C28
Gene No.	120856	Strand	+
Start	761	End	2014

Name	OJ000330_33.0419.C28.o2.np	Method	AAT/NAP
Start	1573	End	2014
GI	6983861	Score	596
Exons	1573..2014		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	57767	Seq. ID	OJ000330_33.0419.C29
Gene No.	120857	Strand	+
Start	260	End	622
Name	OJ000330_33.0419.C29.o1.gs	Method	GENSCAN
Start	260	End	622
GI	none	Score	.71
Exons	260..622		

Seq. No.	57767	Seq. ID	OJ000330_33.0419.C29
Gene No.	120858	Strand	+
Start	1745	End	1821
Name	OJ000330_33.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	681	End	1005
GI	none	Score	243
Exons	681..929, 689..928, 934..1005		

Seq. No.	57767	Seq. ID	OJ000330_33.0419.C29
Gene No.	120858	Strand	+
Start	1745	End	1821
Name	OJ000330_33.0419.C29.o1.np	Method	AAT/NAP
Start	1745	End	1821
GI	7489553	Score	102
Exons	1745..1821		
GI Descrip.	probable reverse transcriptase - rice (fragment) gi|2462640|emb|CAA73800.1| (Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	738
GI	4680179	Score	1269
Exons	1..738		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	1	End	406
GI	none	Score	530
Exons	1..99, 2..406, 17..391, 151..405		

Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o1.gs	Method	GENSCAN
Start	23	End	468
GI	none	Score	.43

Exons	23..468		
Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o2.tm	Method	TBLASTX:Maize
Start	56	End	370
GI	none	Score	272
Exons	56..370, 77..286, 166..369		
Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	113	End	430
GI	none	Score	90
Exons	113..286, 287..430, 289..429		
Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	194	End	454
GI	none	Score	300
Exons	194..454, 199..453		
Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	371	End	688
GI	none	Score	451
Exons	371..688, 382..687		
Seq. No.	57768	Seq. ID	OJ000330_33.0419.C31
Gene No.	120859	Strand	+
Start	1	End	738
Name	OJ000330_33.0419.C31.o2.tw	Method	TBLASTX:Wheat
Start	412	End	736
GI	none	Score	412
Exons	412..735, 413..736		
Seq. No.	57769	Seq. ID	OJ000330_33.0419.C32
Gene No.	120860	Strand	+
Start	1101	End	1403
Name	OJ000330_33.0419.C32.o1.gs	Method	GENSCAN
Start	1101	End	1403
GI	none	Score	.63
Exons	1101..1403		
Seq. No.	57769	Seq. ID	OJ000330_33.0419.C32
Gene No.	120861	Strand	-
Start	1977	End	3222
Name	OJ000330_33.0419.C32.o2.gs	Method	GENSCAN
Start	1977	End	2934
GI	none	Score	.97
Exons	1977..2150, 2405..2477, 2564..2934		

Seq. No.	57769	Seq. ID	OJ000330_33.0419.C32
Gene No.	120861	Strand	-
Start	1977	End	3222
Name	OJ000330_33.0419.C32.o1.np	Method	AAT/NAP
Start	1984	End	3222
GI	4680204	Score	219
Exons	1984..2203, 2544..2674, 2761..2934, 3026..3222		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120862	Strand	+
Start	1	End	1302
Name	OJ000330_33.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	1299
GI	7228457	Score	2193
Exons	1..1299		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120862	Strand	+
Start	1	End	1302
Name	OJ000330_33.0419.C35.o1.gs	Method	GENSCAN
Start	98	End	1302
GI	none	Score	.95
Exons	98..1302		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120863	Strand	-
Start	1942	End	2017
Name	OJ000330_33.0419.C35.o2.gs	Method	GENSCAN
Start	1942	End	2017
GI	none	Score	1
Exons	1942..2017		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120864	Strand	-
Start	1945	End	2063
Name	OJ000330_33.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	169	End	492
GI	none	Score	360
Exons	169..492, 198..479		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120864	Strand	-
Start	1945	End	2063
Name	OJ000330_33.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	306	End	687
GI	none	Score	375
Exons	306..362, 307..687, 408..656		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120864	Strand	-
Start	1945	End	2063
Name	OJ000330_33.0419.C35.o2.tw	Method	TBLASTX:Wheat

Start	688	End	1290
GI	none	Score	265
Exons	688..972, 693..971, 828..998, 1164..1286, 1165..1290		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120864	Strand	-
Start	1945	End	2063
Name	OJ000330_33.0419.C35.o2.tm	Method	TBLASTX:Maize
Start	1159	End	1341
GI	none	Score	185
Exons	1159..1341, 1164..1298		

Seq. No.	57770	Seq. ID	OJ000330_33.0419.C35
Gene No.	120864	Strand	-
Start	1945	End	2063
Name	OJ000330_33.0419.C35.o2.np	Method	AAT/NAP
Start	1945	End	2063
GI	5803259	Score	123
Exons	1945..2063		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	57771	Seq. ID	OJ000330_33.0419.C37
Gene No.	120865	Strand	+
Start	49	End	778
Name	OJ000330_33.0419.C37.o1.gp	Method	AAT/GAP
Start	49	End	778
GI	101153_1.R1084	Score	414
Exons	49..96, 555..778		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	57771	Seq. ID	OJ000330_33.0419.C37
Gene No.	120865	Strand	+
Start	49	End	778
Name	OJ000330_33.0419.C37.o1.gs	Method	GENSCAN
Start	157	End	218
GI	none	Score	.89
Exons	157..218		

Seq. No.	57771	Seq. ID	OJ000330_33.0419.C37
Gene No.	120866	Strand	-
Start	1	End	2643
Name	OJ000330_33.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	2643
GI	5852180	Score	193
Exons	1..246, 1404..1492, 2564..2643		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	57771	Seq. ID	OJ000330_33.0419.C37
Gene No.	120866	Strand	-
Start	1	End	2643
Name	OJ000330_33.0419.C37.o2.gs	Method	GENSCAN
Start	526	End	1207
GI	none	Score	.86
Exons	526..651, 1097..1207		

Seq. No.	57771	Seq. ID	OJ000330_33.0419.C37

Gene No.	120866	Strand	-
Start	1	End	2643
Name	OJ000330_33.0419.C37.o2.gp	Method	AAT/GAP
Start	1761	End	2061
GI	61605_3.R1084	Score	386
Exons	1761..2061		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	57772	Seq. ID	OJ000330_33.0419.C38
Gene No.	120867	Strand	-
Start	16	End	746
Name	OJ000330_33.0419.C38.o1.gp	Method	AAT/GAP
Start	16	End	746
GI	342_1.R1084	Score	1063
Exons	16..536, 646..746		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	57773	Seq. ID	OJ000330_33.0419.C39
Gene No.	120868	Strand	-
Start	1	End	776
Name	OJ000330_33.0419.C39.o1.gp	Method	AAT/GAP
Start	1	End	152
GI	uC-osflcyp176f10b1	Score	252
Exons	1..152		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	57773	Seq. ID	OJ000330_33.0419.C39
Gene No.	120868	Strand	-
Start	1	End	776
Name	OJ000330_33.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	776
GI	4680204	Score	203
Exons	1..673, 748..776		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	57773	Seq. ID	OJ000330_33.0419.C39
Gene No.	120868	Strand	-
Start	1	End	776
Name	OJ000330_33.0419.C39.o1.gs	Method	GENSCAN
Start	52	End	679
GI	none	Score	.82
Exons	52..259, 261..406, 532..679		

Seq. No.	57774	Seq. ID	OJ000330_33.0419.C42
Gene No.	120869	Strand	-
Start	1	End	1483
Name	OJ000330_33.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	1483
GI	4733937	Score	248
Exons	1..49, 419..797, 1341..1483		
GI Descrip.	(AF080245) sesquiterpene synthase [Elaeis oleifera]		

Seq. No.	57774	Seq. ID	OJ000330_33.0419.C42

Gene No.	120869	Strand	-
Start	1	End	1483
Name	OJ000330_33.0419.C42.o1.gs	Method	GENSCAN
Start	415	End	797
GI	none	Score	.46
Exons	415..797		

Seq. No.	57774	Seq. ID	OJ000330_33.0419.C42
Gene No.	120869	Strand	-
Start	1	End	1483
Name	OJ000330_33.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	418	End	775
GI	none	Score	63
Exons	418..492, 431..487, 472..606, 613..771, 616..774, 626..775		

Seq. No.	57774	Seq. ID	OJ000330_33.0419.C42
Gene No.	120869	Strand	-
Start	1	End	1483
Name	OJ000330_33.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	430	End	796
GI	none	Score	63
Exons	430..795, 707..796		

Seq. No.	57775	Seq. ID	OJ000330_33.0419.C43
Gene No.	120870	Strand	+
Start	209	End	803
Name	OJ000330_33.0419.C43.o1.gs	Method	GENSCAN
Start	209	End	803
GI	none	Score	.82
Exons	209..406, 712..803		

Seq. No.	57776	Seq. ID	OJ000330_33.0419.C45
Gene No.	120871	Strand	+
Start	1	End	1321
Name	OJ000330_33.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1321
GI	4680179	Score	1140
Exons	1..337, 371..1321		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57776	Seq. ID	OJ000330_33.0419.C45
Gene No.	120871	Strand	+
Start	1	End	1321
Name	OJ000330_33.0419.C45.o1.gs	Method	GENSCAN
Start	53	End	1307
GI	none	Score	.63
Exons	53..449, 843..1041, 1131..1307		

Seq. No.	57776	Seq. ID	OJ000330_33.0419.C45
Gene No.	120871	Strand	+
Start	1	End	1321
Name	OJ000330_33.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	362	End	715
GI	none	Score	189
Exons	362..715, 364..531		

Seq. No.	57776	Seq. ID	OJ000330_33.0419.C45

Gene No.	120871	Strand	+
Start	1	End	1321
Name	OJ000330_33.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	397	End	835
GI	none	Score	159
Exons	397..606, 398..607, 652..765, 653..766, 794..835		

Seq. No.	57776	Seq. ID	OJ000330_33.0419.C45
Gene No.	120871	Strand	+
Start	1	End	1321
Name	OJ000330_33.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	905	End	1311
GI	none	Score	90
Exons	905..1099, 1111..1311		

Seq. No.	57776	Seq. ID	OJ000330_33.0419.C45
Gene No.	120871	Strand	+
Start	1	End	1321
Name	OJ000330_33.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	935	End	1320
GI	none	Score	51
Exons	935..985, 985..1320, 1039..1101, 1049..1114, 1105..1314, 1119..1319		

Seq. No.	57777	Seq. ID	OJ000330_33.0419.C48
Gene No.	120872	Strand	+
Start	4223	End	6382
Name	OJ000330_33.0419.C48.o3.np	Method	AAT/NAP
Start	4223	End	6382
GI	5042454	Score	2402
Exons	4223..4358, 4686..4796, 4852..6265, 6341..6382		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	57777	Seq. ID	OJ000330_33.0419.C48
Gene No.	120873	Strand	-
Start	3074	End	5050
Name	OJ000330_33.0419.C48.o1.np	Method	AAT/NAP
Start	3074	End	4717
GI	5732031	Score	284
Exons	3074..3575, 4651..4717		
GI Descrip.	(AF147260) No definition line found [Arabidopsis thaliana]		

Seq. No.	57777	Seq. ID	OJ000330_33.0419.C48
Gene No.	120873	Strand	-
Start	3074	End	5050
Name	OJ000330_33.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	3316	End	3695
GI	none	Score	97
Exons	3316..3597, 3327..3458, 3359..3547, 3486..3596, 3660..3695		

Seq. No.	57777	Seq. ID	OJ000330_33.0419.C48
Gene No.	120873	Strand	-
Start	3074	End	5050
Name	OJ000330_33.0419.C48.o2.np	Method	AAT/NAP
Start	3770	End	5050
GI	7523512	Score	108
Exons	3770..3907, 5003..5050		

GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No.	57777	Seq. ID	OJ000330_33.0419.C48
Gene No.	120874	Strand	
Start	5524	End	5916
Name	OJ000330_33.0419.C48.o1.tw	Method	TBLASTX:Wheat
Start	5524	End	5916
GI	none	Score	58
Exons	5524..5571, 5578..5676, 5595..5675, 5643..5804, 5659..5916		

Seq. No.	57777	Seq. ID	OJ000330_33.0419.C48
Gene No.	120874	Strand	
Start	5524	End	5916
Name	OJ000330_33.0419.C48.o2.tm	Method	TBLASTX:Maize
Start	5529	End	5814
GI	none	Score	187
Exons	5529..5813, 5566..5814		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	2185
GI	7228457	Score	3155
Exons	1..48, 112..946, 1069..2185		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	119	End	582
GI	none	Score	209
Exons	119..562, 120..581, 121..582		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o2.ts	Method	TBLASTX:Soybean
Start	160	End	525
GI	none	Score	117
Exons	160..384, 391..525		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o1.gs	Method	GENSCAN
Start	175	End	2104
GI	none	Score	.48
Exons	175..2104		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o1.tm	Method	TBLASTX:Maize

Start	250	End	606
GI	none	Score	392
Exons	250..606, 285..596, 301..606		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o2.tm	Method	TBLASTX:Maize
Start	633	End	1017
GI	none	Score	357
Exons	633..719, 634..1017, 668..850, 777..998		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o2.tw	Method	TBLASTX:Wheat
Start	691	End	1115
GI	none	Score	484
Exons	691..1110, 692..880, 789..1115		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	769	End	1140
GI	none	Score	278
Exons	769..1140, 786..929		

Seq. No.	57778	Seq. ID	OJ000330_33.0419.C49
Gene No.	120875	Strand	+
Start	1	End	2185
Name	OJ000330_33.0419.C49.o3.tw	Method	TBLASTX:Wheat
Start	1738	End	2184
GI	none	Score	228
Exons	1738..1989, 1765..1989, 1830..2003, 2050..2184, 2061..2150, 2099..2182		

Seq. No.	57779	Seq. ID	OJ000330_33.0419.C51
Gene No.	120876	Strand	-
Start	1	End	868
Name	OJ000330_33.0419.C51.o1.gp	Method	AAT/GAP
Start	1	End	868
GI	342_1.R1084	Score	1538
Exons	1..868		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	57779	Seq. ID	OJ000330_33.0419.C51
Gene No.	120876	Strand	-
Start	1	End	868
Name	OJ000330_33.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	868
GI	4680203	Score	814
Exons	1..868		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	57779	Seq. ID	OJ000330_33.0419.C51

Gene No.	120876	Strand	-
Start	1	End	868
Name	OJ000330_33.0419.C51.o1.tw	Method	TBLASTX:Wheat
Start	6	End	867
GI	none	Score	131
Exons	6..44, 49..129, 57..197, 58..198, 145..240, 177..236, 243..284, 243..287, 248..310, 282..866, 297..614, 298..867		

Seq. No.	57779	Seq. ID	OJ000330_33.0419.C51
Gene No.	120876	Strand	-
Start	1	End	868
Name	OJ000330_33.0419.C51.o1.gs	Method	GENSCAN
Start	27	End	866
GI	none	Score	41
Exons	27..866		

Seq. No.	57779	Seq. ID	OJ000330_33.0419.C51
Gene No.	120876	Strand	-
Start	1	End	868
Name	OJ000330_33.0419.C51.o1.tc	Method	TBLASTX:Cress
Start	464	End	867
GI	none	Score	166
Exons	464..715, 465..866, 465..866, 469..867, 475..867		

Seq. No.	57780	Seq. ID	OJ000330_33.0419.C54
Gene No.	120877	Strand	-
Start	1	End	1121
Name	OJ000330_33.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	1121
GI	2443320	Score	449
Exons	1..364, 1066..1121		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	57780	Seq. ID	OJ000330_3 419.C54
Gene No.	120877	Strand	-
Start	1	End	1121
Name	OJ000330_33.0419.C54.o1.tw	Method	TBLASTX:Wheat
Start	2	End	361
GI	none	Score	92
Exons	2..55, 3..65, 48..149, 48..143, 55..144, 110. 0..241, 144..245, 247..360, 260..361		

Seq. No.	57780	Seq. ID	OJ000330 0419.C54
Gene No.	120877	Strand	-
Start	1	End	
Name	OJ000330_33.0419.C54.o1.tm	Method	
Start	12	End	
GI	none	Score	39
Exons	12..140, 28..138, 105..23 ..238, 158..250, 247..360, 248..361		

Seq. No.	57780	Seq. ID	OJ000330_33.0419.C54
Gene No.	120877	Strand	-
Start	1	End	1121
Name	OJ000330_33.0419.C54.o1.ts	Method	TBLASTX:Soybean
Start	12	End	354
GI	none	Score	62

Exons	12..140, 69..176, 159..239, 163..258, 164..256, 250..354		
Seq. No.	57781	Seq. ID	OJ000330_33.0419.C55
Gene No.	120878	Strand	+
Start	106	End	398
Name	OJ000330_33.0419.C55.o1.gs	Method	GENSCAN
Start	106	End	398
GI	none	Score	.81
Exons	106..156, 294..398		
Seq. No.	57781	Seq. ID	OJ000330_33.0419.C55
Gene No.	120879	Strand	-
Start	291	End	1533
Name	OJ000330_33.0419.C55.o1.np	Method	AAT/NAP
Start	291	End	1533
GI	6907087	Score	488
Exons	291..392, 932..1533		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	57781	Seq. ID	OJ000330_33.0419.C55
Gene No.	120879	Strand	-
Start	291	End	1533
Name	OJ000330_33.0419.C55.o2.gs	Method	GENSCAN
Start	831	End	1405
GI	none	Score	.45
Exons	831..1405		
Seq. No.	57782	Seq. ID	OJ000330_33.0419.C57
Gene No.	120880	Strand	+
Start	67	End	532
Name	OJ000330_33.0419.C57.o1.gs	Method	GENSCAN
Start	67	End	532
GI	none	Score	.8
Exons	67..116, 416..532		
Seq. No.	57782	Seq. ID	OJ000330_33.0419.C57
Gene No.	120881	Strand	-
Start	1274	End	1483
Name	OJ000330_33.0419.C57.o2.gs	Method	GENSCAN
Start	1274	End	1483
GI	none	Score	.82
Exons	1274..1483		
Seq. No.	57783	Seq. ID	OJ000330_33.0419.C58
Gene No.	120882	Strand	+
Start	1	End	3716
Name	OJ000330_33.0419.C58.o1.np	Method	AAT/NAP
Start	1	End	3716
GI	7340881	Score	436
Exons	1..213, 268..502, 1309..1491, 1597..1667, 3648..3716		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		
Seq. No.	57783	Seq. ID	OJ000330_33.0419.C58
Gene No.	120882	Strand	+
Start	1	End	3716

Name	OJ000330_33.0419.C58.o1.gs	Method	GENSCAN
Start	122	End	3656
GI	none	Score	.51
Exons	122..213, 257..368, 2007..2141, 2383..2473, 3596..3656		

Seq. No.	57783	Seq. ID	OJ000330_33.0419.C58
Gene No.	120883	Strand	-
Start	1	End	3716
Name	OJ000330_33.0419.C58.o3.np	Method	AAT/NAP
Start	1	End	3716
GI	4680179	Score	146
Exons	1..24, 3572..3716		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57783	Seq. ID	OJ000330_33.0419.C58
Gene No.	120883	Strand	-
Start	1	End	3716
Name	OJ000330_33.0419.C58.o2.np	Method	AAT/NAP
Start	3078	End	3251
GI	6063554	Score	117
Exons	3078..3251		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57784	Seq. ID	OJ000330_33.0419.C59
Gene No.	120884	Strand	+
Start	1	End	3639
Name	OJ000330_33.0419.C59.o1.np	Method	AAT/NAP
Start	1	End	3639
GI	5852180	Score	592
Exons	1..44, 1029..1097, 2075..2191, 2243..2659, 3621..3639		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	57784	Seq. ID	OJ000330_33.0419.C59
Gene No.	120884	Strand	+
Start	1	End	3639
Name	OJ000330_33.0419.C59.o1.gs	Method	GENSCAN
Start	213	End	2824
GI	none	Score	.51
Exons	213..231, 1169..1348, 2075..2178, 2333..2824		

Seq. No.	57784	Seq. ID	OJ000330_33.0419.C59
Gene No.	120885	Strand	-
Start	946	End	1328
Name	OJ000330_33.0419.C59.o1.ts	Method	TBLASTX:Soybean
Start	45	End	227
GI	none	Score	193
Exons	45..227, 45..212, 65..217		

Seq. No.	57784	Seq. ID	OJ000330_33.0419.C59
Gene No.	120885	Strand	-
Start	946	End	1328
Name	OJ000330_33.0419.C59.o1.gp	Method	AAT/GAP
Start	946	End	1328
GI	uC-osflcyp033a04b1	Score	708
Exons	946..1328		

GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	57785	Seq. ID	OJ000330_33.0419.C61
Gene No.	120886	Strand	-
Start	36	End	386
Name	OJ000330_33.0419.C61.o1.gs	Method	GENSCAN
Start	36	End	386
GI	none	Score	.7
Exons	36..386		
Seq. No.	57786	Seq. ID	OJ000250_34.0419.C2
Gene No.	120887	Strand	+
Start	1674	End	2584
Name	OJ000250_34.0419.C2.o1.gs	Method	GENSCAN
Start	1674	End	2584
GI	none	Score	.63
Exons	1674..1679, 2154..2200, 2377..2584		
Seq. No.	57787	Seq. ID	OJ000250_34.0419.C3
Gene No.	120888	Strand	+
Start	1	End	438
Name	OJ000250_34.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	435
GI	4337198	Score	249
Exons	1..435		
GI Descrip.	(AC006403) putative auxin-induced protein [Arabidopsis thaliana]		
Seq. No.	57787	Seq. ID	OJ000250_34.0419.C3
Gene No.	120888	Strand	+
Start	1	End	438
Name	OJ000250_34.0419.C3.o1.gs	Method	GENSCAN
Start	72	End	438
GI	none	Score	.41
Exons	72..280, 316..438		
Seq. No.	57787	Seq. ID	OJ000250_34.0419.C3
Gene No.	120889	Strand	-
Start	1457	End	2217
Name	OJ000250_34.0419.C3.o2.gs	Method	GENSCAN
Start	1457	End	2217
GI	none	Score	.53
Exons	1457..1576, 1829..1917, 2162..2217		
Seq. No.	57788	Seq. ID	OJ000250_34.0419.C4
Gene No.	120890	Strand	+
Start	74	End	197
Name	OJ000250_34.0419.C4.o1.gs	Method	GENSCAN
Start	74	End	197
GI	none	Score	.64
Exons	74..197		
Seq. No.	57789	Seq. ID	OJ000250_34.0419.C6
Gene No.	120891	Strand	+
Start	255	End	2382
Name	OJ000250_34.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	225	End	398

GI	none	Score	192
Exons	225..398, 238..387, 257..391		

Seq. No.	57789	Seq. ID	OJ000250_34.0419.C6
Gene No.	120891	Strand	+
Start	255	End	2382
Name	OJ000250_34.0419.C6.o1.gs	Method	GENSCAN
Start	255	End	2382
GI	none	Score	.74
Exons	255..406, 1038..1181, 1754..1808, 1829..1890, 2169..2382		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-
Start	1	End	778
Name	OJ000250_34.0419.C8.o1.gp	Method	AAT/GAP
Start	1	End	778
GI	211_2.R1084	Score	838
Exons	1..170, 255..424, 625..778		
GI Descrip.	'3915826/sp|P49625|RL5_ORYSA 3.0e-77 60S RIBOSOMAL PROTEIN L5'		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-
Start	1	End	778
Name	OJ000250_34.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	40	End	766
GI	none	Score	112
Exons	40..168, 86..172, 87..173, 250..411, 251..433, 625..765, 626..766		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-
Start	1	End	778
Name	OJ000250_34.0419.C8.o1.gs	Method	GENSCAN
Start	53	End	724
GI	none	Score	.98
Exons	53..170, 255..424, 625..724		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-
Start	1	End	778
Name	OJ000250_34.0419.C8.o1.np	Method	AAT/NAP
Start	56	End	778
GI	3915826	Score	649
Exons	56..170, 255..424, 625..778		
GI Descrip.	60S RIBOSOMAL PROTEIN L5		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-
Start	1	End	778
Name	OJ000250_34.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	70	End	766
GI	none	Score	91
Exons	70..168, 86..172, 87..173, 96..173, 250..411, 251..433, 625..765, 626..766		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-

Start	1	End	778
Name	OJ000250_34.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	87	End	435
GI	none	Score	63
Exons	87..173, 89..172, 249..416, 251..433, 325..435		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-
Start	1	End	778
Name	OJ000250_34.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	92	End	766
GI	none	Score	71
Exons	92..172, 93..179, 101..205, 239..388, 242..433, 255..419, 622..765, 629..766		

Seq. No.	57790	Seq. ID	OJ000250_34.0419.C8
Gene No.	120892	Strand	-
Start	1	End	778
Name	OJ000250_34.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	622	End	765
GI	none	Score	125
Exons	622..765, 623..760, 724..765		

Seq. No.	57791	Seq. ID	OJ000250_34.0419.C10
Gene No.	120893	Strand	+
Start	32	End	3765
Name	OJ000250_34.0419.C10.o1.gs	Method	GENSCAN
Start	32	End	3041
GI	none	Score	47
Exons	32..75, 1061..1182, 1759..1806, 2112..2221, 2242..2423, 2497..2663, 2944..3041		

Seq. No.	57791	Seq. ID	OJ000250_34.0419.C10
Gene No.	120893	Strand	+
Start	32	End	3765
Name	OJ000250_34.0419.C10.o2.np	Method	AAT/NAP
Start	2194	End	3765
GI	6063554	Score	158
Exons	2194..2377, 2476..2539, 3593..3765		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57791	Seq. ID	OJ000250_34.0419.C10
Gene No.	120894	Strand	-
Start	1	End	3833
Name	OJ000250_34.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	3833
GI	7339707	Score	149
Exons	1..87, 771..885, 2077..2555, 3740..3833		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	57792	Seq. ID	OJ000250_34.0419.C11
Gene No.	120895	Strand	+
Start	1	End	158
Name	OJ000250_34.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	158

GI	LIB3433-026-P1-K1-C1	Score	233
Exons	1..158		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	57792	Seq. ID	OJ000250_34.0419.C11
Gene No.	120896	Strand	+
Start	779	End	1570
Name	OJ000250_34.0419.C11.o1.gs	Method	GENSCAN
Start	779	End	1570
GI	none	Score	.94
Exons	779..1570		

Seq. No.	57792	Seq. ID	OJ000250_34.0419.C11
Gene No.	120896	Strand	+
Start	779	End	1570
Name	OJ000250_34.0419.C11.o1.np	Method	AAT/NAP
Start	779	End	1567
GI	6983861	Score	1350
Exons	779..1567		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	57792	Seq. ID	OJ000250_34.0419.C11
Gene No.	120897	Strand	+
Start	1834	End	3324
Name	OJ000250_34.0419.C11.o2.np	Method	AAT/NAP
Start	1834	End	3324
GI	6983860	Score	2013
Exons	1834..2924, 3180..3324		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	57792	Seq. ID	OJ000250_34.0419.C11
Gene No.	120897	Strand	+
Start	1834	End	3324
Name	OJ000250_34.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	2002	End	2361
GI	none	Score	275
Exons	2002..2361, 2028..2105, 2127..2348		

Seq. No.	57792	Seq. ID	OJ000250_34.0419.C11
Gene No.	120897	Strand	+
Start	1834	End	3324
Name	OJ000250_34.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	2924	End	3277
GI	none	Score	257
Exons	2924..3277		

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1098
GI	4680179	Score	1510
Exons	1..1098		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	22	End	165
GI	none	Score	193
Exons	22..165, 24..155, 31..162		

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o3.tw	Method	TBLASTX:Wheat
Start	22	End	180
GI	none	Score	227
Exons	22..180, 24..179		

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	25	End	255
GI	none	Score	257
Exons	25..255, 31..171, 33..245		

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o1.gs	Method	GENSCAN
Start	86	End	1061
GI	none	Score	.74
Exons	86..289, 414..1061		

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	181	End	604
GI	none	Score	81
Exons	181..261, 183..245, 258..467, 475..597	263..436, 264..470, 464..604,	

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	258	End	604
GI	none	Score	273
Exons	258..467, 263..469, 303..470,	464..604, 475..597	

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	632	End	1098
GI	none	Score	507
Exons	632..1096, 772..1098, 788..1093, 814..1098		

Seq. No.	57793	Seq. ID	OJ000250_34.0419.C12
Gene No.	120898	Strand	+
Start	1	End	1098
Name	OJ000250_34.0419.C12.o3.tm	Method	TBLASTX:Maize
Start	788	End	1098
GI	none	Score	233
Exons	788..1096, 815..1096, 853..1098		

Seq. No.	57794	Seq. ID	OJ000250_34.0419.C14
Gene No.	120899	Strand	-
Start	1	End	824
Name	OJ000250_34.0419.C14.o1.gp	Method	AAT/GAP
Start	1	End	824
GI	2073_1.R1084	Score	298
Exons	1..58, 515..584, 675..703, 784..824		
GI Descrip.	'120900/sp|Q00052|GAL1_LACHE 2.0e-26 GALACTOKINASE >gi_421585_pir__A47032 galactokinase galK - Lactobacillus helveticus >gi_44000_emb_CAA40525_ (X57248) galactokinase [Lactobacillus helveticus]'		

Seq. No.	57794	Seq. ID	OJ000250_34.0419.C14
Gene No.	120899	Strand	-
Start	1	End	824
Name	OJ000250_34.0419.C14.o1.gs	Method	GENSCAN
Start	516	End	584
GI	none	Score	.93
Exons	516..584		

Seq. No.	57795	Seq. ID	OJ000250_34.0419.C17
Gene No.	120901	Strand	-
Start	46	End	605
Name	OJ000250_34.0419.C17.o1.gs	Method	GENSCAN
Start	46	End	605
GI	none	Score	.44
Exons	46..299, 314..605		

Seq. No.	57796	Seq. ID	OJ000250_34.0419.C18
Gene No.	120902	Strand	+
Start	334	End	716
Name	OJ000250_34.0419.C18.o1.gs	Method	GENSCAN
Start	334	End	716
GI	none	Score	.46
Exons	334..716		

Seq. No.	57797	Seq. ID	OJ000250_34.0419.C19
Gene No.	120903	Strand	-
Start	486	End	699
Name	OJ000250_34.0419.C19.o1.gs	Method	GENSCAN
Start	486	End	699
GI	none	Score	.65
Exons	486..699		

Seq. No.	57798	Seq. ID	OJ000250_34.0419.C20
Gene No.	120904	Strand	+
Start	923	End	991
Name	OJ000250_34.0419.C20.o1.gs	Method	GENSCAN

Start	923	End	991
GI	none	Score	.48
Exons	923..991		

Seq. No.	57799	Seq. ID	OJ000250_34.0419.C21
Gene No.	120905	Strand	+
Start	245	End	802
Name	OJ000250_34.0419.C21.o1.gs	Method	GENSCAN
Start	245	End	802
GI	none	Score	.64
Exons	245..531, 686..802		

Seq. No.	57800	Seq. ID	OJ000250_34.0419.C22
Gene No.	120906	Strand	+
Start	1	End	803
Name	OJ000250_34.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	803
GI	6069646	Score	289
Exons	1..429, 711..803		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	57800	Seq. ID	OJ000250_34.0419.C22
Gene No.	120907	Strand	-
Start	93	End	728
Name	OJ000250_34.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	3	End	653
GI	none	Score	423
Exons	3..653, 194..430		

Seq. No.	57800	Seq. ID	OJ000250_34.0419.C22
Gene No.	120907	Strand	-
Start	93	End	728
Name	OJ000250_34.0419.C22.o1.gs	Method	GENSCAN
Start	93	End	635
GI	none	Score	.8
Exons	93..227, 309..635		

Seq. No.	57800	Seq. ID	OJ000250_34.0419.C22
Gene No.	120907	Strand	-
Start	93	End	728
Name	OJ000250_34.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	288	End	728
GI	none	Score	180
Exons	288..590, 290..442, 630..728		

Seq. No.	57801	Seq. ID	OJ000250_34.0419.C23
Gene No.	120908	Strand	+
Start	63	End	1460
Name	OJ000250_34.0419.C23.o1.gs	Method	GENSCAN
Start	63	End	1460
GI	none	Score	.44
Exons	63..223, 1378..1460		

Seq. No.	57802	Seq. ID	OJ000250_34.0419.C24
Gene No.	120909	Strand	-
Start	144	End	257
Name	OJ000250_34.0419.C24.o1.gs	Method	GENSCAN
Start	144	End	257
GI	none	Score	.95
Exons	144..257		

Seq. No.	57803	Seq. ID	OJ000250_34.0419.C27
Gene No.	120910	Strand	+
Start	44	End	265
Name	OJ000250_34.0419.C27.o1.gs	Method	GENSCAN
Start	44	End	265
GI	none	Score	.75
Exons	44..265		

Seq. No.	57804	Seq. ID	OJ000250_34.0419.C28
Gene No.	120911	Strand	+
Start	1	End	780
Name	OJ000250_34.0419.C28.o1.gp	Method	AAT/GAP
Start	1	End	780
GI	342_1.R1084	Score	1407
Exons	1..780		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	57804	Seq. ID	OJ000250_34.0419.C28
Gene No.	120911	Strand	+
Start	1	End	780
Name	OJ000250_34.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	780
GI	6742729	Score	1215
Exons	1..780		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	57804	Seq. ID	OJ000250_34.0419.C28
Gene No.	120911	Strand	+
Start	1	End	780
Name	OJ000250_34.0419.C28.o1.gs	Method	GENSCAN
Start	81	End	577
GI	none	Score	.72
Exons	81..267, 399..577		

Seq. No.	57804	Seq. ID	OJ000250_34.0419.C28
Gene No.	120911	Strand	+
Start	1	End	780
Name	OJ000250_34.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	191	End	654
GI	none	Score	87
Exons	191..241, 192..254, 240..395, 394..435, 395..481, 401..481, 515..652	266..394, 271..396, 280..399, 509..652, 510..587, 514..654,	

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120912	Strand	+
Start	1	End	1141
Name	OJ000250_34.0419.C29.o1.np	Method	AAT/NAP

Start	1	End	1141
GI	4680203	Score	950
Exons	1..1141		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120913	Strand	+
Start	2698	End	7031
Name	OJ000250_34.0419.C29.o2.gs	Method	GENSCAN
Start	2698	End	7031
GI	none	Score	.5
Exons	2698..2823, 3717..3959, 3971..4375, 4774..4896, 5017..5136, 5232..5373, 5499..5641, 5643..6077, 6131..6327, 6434..6607, 6702..6792, 6897..7031		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120913	Strand	+
Start	2698	End	7031
Name	OJ000250_34.0419.C29.o2.np	Method	AAT/NAP
Start	3717	End	7027
GI	4680204	Score	939
Exons	3717..5136, 5232..6327, 6434..6607, 6702..7027		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120913	Strand	+
Start	2698	End	7031
Name	OJ000250_34.0419.C29.o3.gp	Method	AAT/GAP
Start	5747	End	6227
GI	uC-osflcyp176f10b1	Score	815
Exons	5747..6227		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120914	Strand	-
Start	781	End	1225
Name	OJ000250_34.0419.C29.o1.gp	Method	AAT/GAP
Start	781	End	1225
GI	LIB3431-028-P1-N1-A10	Score	750
Exons	781..1127, 1155..1225		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120915	Strand	-
Start	3897	End	4167
Name	OJ000250_34.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	1	End	1087
GI	none	Score	595
Exons	1..399, 2..688, 356..673, 681..722, 683..727, 686..727, 730..825, 734..793, 772..912, 773..913, 804..920, 926..1006, 980..1087		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120915	Strand	-

Start	3897	End	4167
Name	OJ000250_34.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	54	End	505
GI	none	Score	167
Exons	54..209, 58..480, 58..399, 62..505, 356..505		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120915	Strand	-
Start	3897	End	4167
Name	OJ000250_34.0419.C29.o2.gp	Method	AAT/GAP
Start	3897	End	4167
GI	2310235	Score	381
Exons	3897..4167		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120916	Strand	
Start	4449	End	4782
Name	OJ000250_34.0419.C29.o2.tw	Method	TBLASTX:Wheat
Start	4449	End	4782
GI	none	Score	143
Exons	4449..4547, 4450..4611, 4615..4752, 4671..4751, 4762..4782		

Seq. No.	57805	Seq. ID	OJ000250_34.0419.C29
Gene No.	120917	Strand	
Start	6254	End	6771
Name	OJ000250_34.0419.C29.o3.tw	Method	TBLASTX:Wheat
Start	6254	End	6771
GI	none	Score	61
Exons	6254..6334, 6420..6602, 6470..6613, 6700..6771		

Seq. No.	57806	Seq. ID	OJ000250_34.0419.C30
Gene No.	120918	Strand	-
Start	79	End	2822
Name	OJ000250_34.0419.C30.o1.gs	Method	GENSCAN
Start	79	End	2822
GI	none	Score	.53
Exons	79..288, 700..743, 1931..1977, 2044..2318, 2745..2822		

Seq. No.	57807	Seq. ID	OJ000250_34.0419.C31
Gene No.	120919	Strand	+
Start	151	End	282
Name	OJ000250_34.0419.C31.o1.gs	Method	GENSCAN
Start	151	End	282
GI	none	Score	.75
Exons	151..282		

Seq. No.	57807	Seq. ID	OJ000250_34.0419.C31
Gene No.	120920	Strand	+
Start	902	End	1039
Name	OJ000250_34.0419.C31.o1.gp	Method	AAT/GAP
Start	902	End	1039
GI	LIB3431-027-P1-K1-D5	Score	249
Exons	902..1039		
GI Descrip.	'2190552 1.0e-21 (AC001229) Similar to Holcus major pollen allergen (gb_Z27084). [Arabidopsis thaliana]'		

Seq. No.	57807	Seq. ID	OJ000250_34.0419.C31
Gene No.	120921	Strand	-
Start	1077	End	1195
Name	OJ000250_34.0419.C31.o2.gs	Method	GENSCAN
Start	1077	End	1195
GI	none	Score	1
Exons	1077..1195		

Seq. No.	57808	Seq. ID	OJ000250_34.0419.C33
Gene No.	120922	Strand	-
Start	1	End	872
Name	OJ000250_34.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	872
GI	7488028	Score	431
Exons	1..872		
GI Descrip.	potassium transport protein homolog F24G24.110 - Arabidopsis thaliana gi|4538960|emb|CAB39784.1| (AL049488) potassium uptake transporter-like protein [Arabidopsis thaliana] gi|7267728|emb|CAB78154.1| (AL161517) potassium uptake transporter-like protein [Arabidopsis thaliana]		

Seq. No.	57809	Seq. ID	OJ000250_34.0419.C34
Gene No.	120923	Strand	-
Start	626	End	2133
Name	OJ000250_34.0419.C34.o1.np	Method	AAT/NAP
Start	262	End	2133
GI	1076770	Score	253
Exons	262..463, 648..860, 2012..2133		
GI Descrip.	high-affinity potassium uptake transporter - wheat gi|567062 (U16709) HKT1 [Triticum aestivum] gi|746339|prf||2017355A K uptake transporter [Triticum aestivum]		

Seq. No.	57809	Seq. ID	OJ000250_34.0419.C34
Gene No.	120923	Strand	-
Start	626	End	2133
Name	OJ000250_34.0419.C34.o1.gs	Method	GENSCAN
Start	626	End	1835
GI	none	Score	.51
Exons	626..860, 1222..1306, 1709..1835		

Seq. No.	57810	Seq. ID	OJ000250_34.0419.C35
Gene No.	120924	Strand	-
Start	1	End	1585
Name	OJ000250_34.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	1585
GI	1076770	Score	177
Exons	1..517, 1514..1585		
GI Descrip.	high-affinity potassium uptake transporter - wheat gi|567062 (U16709) HKT1 [Triticum aestivum] gi|746339|prf||2017355A K uptake transporter [Triticum aestivum]		

Seq. No.	57810	Seq. ID	OJ000250_34.0419.C35
Gene No.	120924	Strand	-
Start	1	End	1585
Name	OJ000250_34.0419.C35.o1.gs	Method	GENSCAN
Start	28	End	489

GI	none	Score	.99
Exons	28..489		

Seq. No.	57811	Seq. ID	OJ000250_34.0419.C36
Gene No.	120925	Strand	+
Start	1	End	1178
Name	OJ000250_34.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	1178
GI	4680203	Score	695
Exons	1..19, 468..1178		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	57811	Seq. ID	OJ000250_34.0419.C36
Gene No.	120925	Strand	+
Start	1	End	1178
Name	OJ000250_34.0419.C36.o1.gp	Method	AAT/GAP
Start	436	End	923
GI	2310235	Score	247
Exons	436..607, 898..923		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	57811	Seq. ID	OJ000250_34.0419.C36
Gene No.	120925	Strand	+
Start	1	End	1178
Name	OJ000250_34.0419.C36.o1.gs	Method	GENSCAN
Start	468	End	842
GI	none	Score	.56
Exons	468..842		

Seq. No.	57811	Seq. ID	OJ000250_34.0419.C36
Gene No.	120925	Strand	+
Start	1	End	1178
Name	OJ000250_34.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	774	End	1172
GI	none	Score	104
Exons	774..926, 793..912, 909..1067, 917..1066, 1004..1159, 1035..1172, 1036..1158		

Seq. No.	57812	Seq. ID	OJ000250_34.0419.C38
Gene No.	120926	Strand	-
Start	1	End	1391
Name	OJ000250_34.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	1391
GI	7486095	Score	971
Exons	1..41, 77..300, 386..634, 718..853, 1122..1391		
GI Descrip.	hypothetical protein F24L7.13 - Arabidopsis thaliana gi|2914700|gb|AAC04490.1| (AC003974) 26S proteasome regulatory subunit [Arabidopsis thaliana]		

Seq. No.	57812	Seq. ID	OJ000250_34.0419.C38
Gene No.	120926	Strand	-
Start	1	End	1391
Name	OJ000250_34.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	74	End	534
GI	none	Score	176
Exons	74..223, 80..214, 212..316, 215..301, 383..520, 384..521,		

385..534, 385..534

Seq. No.	57812	Seq. ID	OJ000250_34.0419.C38
Gene No.	120926	Strand	-
Start	1	End	1391
Name	OJ000250_34.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	74	End	832
GI	none	Score	135
Exons	74..223, 80..223, 81..230, 82..231, 212..316, 214..300, 383..634, 384..587, 385..636, 385..663, 716..832, 718..831		

Seq. No.	57812	Seq. ID	OJ000250_34.0419.C38
Gene No.	120926	Strand	-
Start	1	End	1391
Name	OJ000250_34.0419.C38.o2.tc	Method	TBLASTX:Cress
Start	74	End	297
GI	none	Score	106
Exons	74..223, 80..223, 214..297, 215..292		

Seq. No.	57812	Seq. ID	OJ000250_34.0419.C38
Gene No.	120926	Strand	-
Start	1	End	1391
Name	OJ000250_34.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	473	End	780
GI	none	Score	109
Exons	473..634, 474..587, 475..636, 716..772, 718..780		

Seq. No.	57812	Seq. ID	OJ000250_34.0419.C38
Gene No.	120926	Strand	-
Start	1	End	1391
Name	OJ000250_34.0419.C38.o1.gp	Method	AAT/GAP
Start	543	End	1391
GI	uC-osflcyp156d05b1	Score	932
Exons	543..634, 718..853, 1122..1391		
GI Descrip.	'1168811/sp|P25859|CC2B_ARATH 2.0e-17 CELL DIVISION CONTROL PROTEIN 2 HOMOLOG B >gi_282864_pir__S23096 protein kinase (EC 2.7.1.37) cdc2 homolog B - Arabidopsis thaliana >gi_217851_dbj_BAA01624_ (D10851) p32 protein serine/threonine kinase-related protein [Arabidopsis thaliana]'		

Seq. No.	57812	Seq. ID	OJ000250_34.0419.C38
Gene No.	120926	Strand	-
Start	1	End	1391
Name	OJ000250_34.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	545	End	1356
GI	none	Score	95
Exons	545..634, 551..631, 708..782, 716..784, 718..783, 780..848, 784..858, 784..858, 785..859, 1098..1298, 1121..1318, 1124..1303, 1312..1356		

Seq. No.	57813	Seq. ID	OJ000250_34.0419.C39
Gene No.	120927	Strand	-
Start	1	End	56
Name	OJ000250_34.0419.C39.o1.gp	Method	AAT/GAP
Start	1	End	56
GI	2317311	Score	108
Exons	1..56		

GI Descrip.	1168811/sp|P25859|CC2B_ARATH 2.0e-17 CELL DIVISION CONTROL PROTEIN 2 HOMOLOG B >gi_282864_pir__S23096 protein kinase (EC 2.7.1.37) cdc2 homolog B - Arabidopsis thaliana >gi_217851_dbj_BAA01624_ (D10851) p32 protein serine/threonine kinase-related protein [Arabidopsis thaliana]		
Seq. No.	57813	Seq. ID	OJ000250_34.0419.C39
Gene No.	120928	Strand	-
Start	47	End	97
Name	OJ000250_34.0419.C39.o1.gs	Method	GENSCAN
Start	47	End	97
GI	none	Score	.76
Exons	47..97		
Seq. No.	57814	Seq. ID	OJ000250_34.0419.C43
Gene No.	120929	Strand	-
Start	22	End	415
Name	OJ000250_34.0419.C43.o1.gs	Method	GENSCAN
Start	22	End	415
GI	none	Score	.95
Exons	22..294, 311..415		
Seq. No.	57815	Seq. ID	OJ000250_34.0419.C45
Gene No.	120930	Strand	-
Start	8	End	281
Name	OJ000250_34.0419.C45.o1.gs	Method	GENSCAN
Start	8	End	281
GI	none	Score	.87
Exons	8..281		
Seq. No.	57816	Seq. ID	OJ000250_34.0419.C46
Gene No.	120931	Strand	-
Start	80	End	864
Name	OJ000250_34.0419.C46.o1.np	Method	AAT/NAP
Start	80	End	864
GI	6523547	Score	228
Exons	80..864		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		
Seq. No.	57816	Seq. ID	OJ000250_34.0419.C46
Gene No.	120931	Strand	-
Start	80	End	864
Name	OJ000250_34.0419.C46.o1.gs	Method	GENSCAN
Start	289	End	621
GI	none	Score	.6
Exons	289..426, 539..621		
Seq. No.	57817	Seq. ID	OJ000250_34.0419.C47
Gene No.	120932	Strand	+
Start	1750	End	2388
Name	OJ000250_34.0419.C47.o1.gp	Method	AAT/GAP
Start	1750	End	2388
GI	2073_1.R1084	Score	240
Exons	1750..1883, 2352..2388		
GI Descrip.	'120900/sp|Q00052|GAL1_LACHE 2.0e-26 GALACTOKINASE >gi_421585_pir__A47032 galactokinase galK - Lactobacillus		

helveticus >gi_44000_emb_CAA40525_ (X57248) galactokinase [Lactobacillus helveticus]'

Seq. No.	57817	Seq. ID	OJ000250_34.0419.C47
Gene No.	120932	Strand	+
Start	1750	End	2388
Name	OJ000250_34.0419.C47.o1.gs	Method	GENSCAN
Start	1827	End	2123
GI	none	Score	.8
Exons	1827..1883, 1962..2123		

Seq. No.	57818	Seq. ID	OJ000250_34.0419.C49
Gene No.	120933	Strand	+
Start	415	End	1380
Name	OJ000250_34.0419.C49.o1.np	Method	AAT/NAP
Start	415	End	1362
GI	7486929	Score	250
Exons	415..516, 866..1362		
GI Descrip.	hypothetical protein T13D8.29 - Arabidopsis thaliana gi|3249084|gb|AAC24068.1| (AC004473) Similar to red-1 (related to thioredoxin) gene gb|X92750 from Mus musculus. ESTs gb|AA712687 and gb|Z37223 come from this gene [Arabidopsis thaliana]		

Seq. No.	57818	Seq. ID	OJ000250_34.0419.C49
Gene No.	120933	Strand	+
Start	415	End	1380
Name	OJ000250_34.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	856	End	1359
GI	none	Score	223
Exons	856..1083, 874..1146, 874..1161, 876..1085, 909..1082, 1186..1359		

Seq. No.	57818	Seq. ID	OJ000250_34.0419.C49
Gene No.	120933	Strand	+
Start	415	End	1380
Name	OJ000250_34.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	874	End	1380
GI	none	Score	284
Exons	874..1152, 876..1148, 883..981, 1165..1380		

Seq. No.	57819	Seq. ID	OJ000250_34.0419.C50
Gene No.	120934	Strand	+
Start	1	End	297
Name	OJ000250_34.0419.C50.o1.np	Method	AAT/NAP
Start	1	End	294
GI	7486675	Score	315
Exons	1..294		
GI Descrip.	hypothetical protein F8F16.60 - Arabidopsis thaliana gi|2827519|emb|CAA16527.1| (AL021633) predicted protein [Arabidopsis thaliana] gi|7270026|emb|CAB79842.1| (AL161578) predicted protein [Arabidopsis thaliana]		

Seq. No.	57819	Seq. ID	OJ000250_34.0419.C50
Gene No.	120934	Strand	+
Start	1	End	297
Name	OJ000250_34.0419.C50.o1.gs	Method	GENSCAN

Start	71	End	297
GI	none	Score	.4
Exons	71..297		

Seq. No.	57819	Seq. ID	OJ000250_34.0419.C50
Gene No.	120935	Strand	-
Start	796	End	1029
Name	OJ000250_34.0419.C50.o1.ts	Method	TBLASTX:Soybean
Start	1	End	303
GI	none	Score	303
Exons	1..276, 3..74, 41..232, 43..303		

Seq. No.	57819	Seq. ID	OJ000250_34.0419.C50
Gene No.	120935	Strand	-
Start	796	End	1029
Name	OJ000250_34.0419.C50.o2.gs	Method	GENSCAN
Start	796	End	1029
GI	none	Score	.57
Exons	796..847, 873..1029		

Seq. No.	57820	Seq. ID	OJ000250_34.0419.C51
Gene No.	120936	Strand	+
Start	488	End	3063
Name	OJ000250_34.0419.C51.o1.gs	Method	GENSCAN
Start	488	End	3063
GI	none	Score	.94
Exons	488..843, 876..3063		

Seq. No.	57820	Seq. ID	OJ000250_34.0419.C51
Gene No.	120937	Strand	-
Start	1	End	3022
Name	OJ000250_34.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	3022
GI	5668598	Score	85
Exons	1..182, 863..1089, 1381..1492, 2051..2361, 2938..3022		
GI Descrip.	(AF106062) Wiskott-Aldrich syndrome protein interacting protein [Homo sapiens]		

Seq. No.	57821	Seq. ID	OJ000250_34.0419.C53
Gene No.	120938	Strand	+
Start	144	End	254
Name	OJ000250_34.0419.C53.o1.gs	Method	GENSCAN
Start	144	End	254
GI	none	Score	.81
Exons	144..254		

Seq. No.	57822	Seq. ID	OJ000250_34.0419.C58
Gene No.	120939	Strand	+
Start	149	End	784
Name	OJ000250_34.0419.C58.o1.gs	Method	GENSCAN
Start	149	End	784
GI	none	Score	.47
Exons	149..229, 652..784		

Seq. No.	57823	Seq. ID	OJ000250_34.0419.C59
Gene No.	120940	Strand	+
Start	43	End	1255

Name	OJ000250_34.0419.C59.o2.tm	Method	TBLASTX:Maize
Start	4	End	235
GI	none	Score	108
Exons	4..114, 4..90, 5..100, 83..235, 91..198		

Seq. No.	57823	Seq. ID	OJ000250_34.0419.C59
Gene No.	120940	Strand	+
Start	43	End	1255
Name	OJ000250_34.0419.C59.o1.gs	Method	GENSCAN
Start	43	End	1255
GI	none	Score	.98
Exons	43..778, 872..1255		

Seq. No.	57823	Seq. ID	OJ000250_34.0419.C59
Gene No.	120940	Strand	+
Start	43	End	1255
Name	OJ000250_34.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	267	End	1123
GI	none	Score	156
Exons	267..428, 271..429, 276..407, 277..411, 439..510, 453..509, 454..510, 455..514, 508..609, 509..598, 683..784, 897..1109, 897..1094, 902..1123, 907..1122		

Seq. No.	57824	Seq. ID	OJ000250_34.0419.C60
Gene No.	120941	Strand	+
Start	108	End	669
Name	OJ000250_34.0419.C60.o1.gp	Method	AAT/GAP
Start	108	End	473
GI	2799378	Score	674
Exons	108..473		

Seq. No.	57824	Seq. ID	OJ000250_34.0419.C60
Gene No.	120941	Strand	+
Start	108	End	669
Name	OJ000250_34.0419.C60.o1.tm	Method	TBLASTX:Maize
Start	159	End	669
GI	none	Score	195
Exons	159..206, 301..432, 327..482, 327..482, 571..669, 575..667		

Seq. No.	57825	Seq. ID	OJ000250_34.0419.C66
Gene No.	120942	Strand	+
Start	130	End	430
Name	OJ000250_34.0419.C66.o1.gs	Method	GENSCAN
Start	130	End	430
GI	none	Score	.64
Exons	130..430		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120944	Strand	+
Start	339	End	541
Name	OJ000250_34.0419.C67.o1.gs	Method	GENSCAN
Start	339	End	541
GI	none	Score	.81
Exons	339..541		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120945	Strand	-

Start	3500	End	5215
Name	OJ000250_34.0419.C67.o2.gp	Method	AAT/GAP
Start	3294	End	5212
GI	211_1.R1084	Score	1980
Exons	3294..3617, 3704..3873, 4060..4194, 4359..4475, 4558..4637, 4729..4855, 4965..5056, 5140..5212		
GI Descrip.	'3915826/sp|P49625|RL5_ORYSA 1.0e-147 60S RIBOSOMAL PROTEIN L5'		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120945	Strand	-
Start	3500	End	5215
Name	OJ000250_34.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	3345	End	5207
GI	none	Score	49
Exons	3345..3416, 3533..3619, 3534..3620, 3698..3874, 3700..3879, 4060..4170, 4061..4201, 4158..4196, 4314..4478, 4357..4476, 4358..4495, 4359..4493, 4360..4500, 4557..4649, 4557..4637, 4558..4647, 4591..4677, 4714..4851, 4715..4852, 4730..4855, 4731..4877, 4943..5056, 4967..5056, 4986..5057, 5086..5202, 5144..5203, 5148..5207		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120945	Strand	-
Start	3500	End	5215
Name	OJ000250_34.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	3361	End	5213
GI	none	Score	47
Exons	3361..3414, 3390..3413, 3411..3446, 3411..3449, 3412..3447, 3533..3619, 3534..3620, 3543..3620, 3545..3634, 3698..3868, 3700..3879, 4060..4170, 4061..4201, 4161..4196, 4357..4476, 4358..4492, 4358..4480, 4359..4493, 4360..4494, 4556..4636, 4557..4637, 4558..4647, 4559..4639, 4730..4855, 4731..4877, 4964..5053, 4967..5053, 4986..5054, 5131..5205, 5144..5206, 5148..5213		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120945	Strand	-
Start	3500	End	5215
Name	OJ000250_34.0419.C67.o2.gs	Method	GENSCAN
Start	3500	End	5212
GI	none	Score	.96
Exons	3500..3617, 3704..3873, 4060..4194, 4359..4475, 4558..4637, 4729..4855, 4974..5056, 5140..5212		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120945	Strand	-
Start	3500	End	5215
Name	OJ000250_34.0419.C67.o1.np	Method	AAT/NAP
Start	3503	End	5215
GI	3915826	Score	1334
Exons	3503..3617, 3704..3873, 4060..4194, 4359..4475, 4558..4637, 4729..4855, 4965..5056, 5140..5215		
GI Descrip.	60S RIBOSOMAL PROTEIN L5		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120945	Strand	-
Start	3500	End	5215

Name	OJ000250_34.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	3534	End	5207
GI	none	Score	69
Exons	3534..3620, 3536..3619, 3748..3780, 3749..3781, 4066..4092, 4093..4170, 4106..4201, 4158..4196, 4357..4476, 4358..4495, 4359..4499, 4360..4500, 4558..4647, 4559..4639, 4727..4852, 4730..4855, 4731..4877, 4973..5050, 4986..5057, 5148..5207		

Seq. No.	57826	Seq. ID	OJ000250_34.0419.C67
Gene No.	120945	Strand	-
Start	3500	End	5215
Name	OJ000250_34.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	3539	End	5202
GI	none	Score	75
Exons	3539..3622, 3540..3626, 3698..3868, 3703..3879, 4057..4170, 4064..4201, 4158..4220, 4317..4478, 4357..4476, 4358..4495, 4358..4480, 4359..4493, 4360..4500, 4556..4639, 4558..4647, 4559..4639, 4714..4779, 4730..4855, 4731..4877, 4966..5007, 4986..5057, 5146..5202		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120946	Strand	+
Start	4270	End	16335
Name	OJ000250_34.0419.C71.o2.gs	Method	GENSCAN
Start	4270	End	16114
GI	none	Score	.56
Exons	4270..4272, 4719..4820, 5007..5270, 7139..7296, 9681..9937, 10264..10314, 10533..10706, 10897..10951, 11451..11565, 11648..11776, 12108..12155, 12460..12617, 12820..12896, 13012..13304, 13392..13553, 13628..13990, 14086..14235, 14590..14665, 14900..15027, 15126..15326, 15428..15565, 15664..15795, 15908..16114		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120946	Strand	+
Start	4270	End	16335
Name	OJ000250_34.0419.C71.o2.gp	Method	AAT/GAP
Start	6268	End	6372
GI	LIB3433-026-P1-K1-E11	Score	150
Exons	6268..6372		
GI Descrip.	'5441872/dbj|AP000366.1|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120946	Strand	+
Start	4270	End	16335
Name	OJ000250_34.0419.C71.o2.np	Method	AAT/NAP
Start	10560	End	16335
GI	2335096	Score	862
Exons	10560..10706, 10877..10951, 11243..11367, 11451..11565, 11693..11776, 12108..12184, 12374..12624, 13010..13304, 13628..14235, 14590..14665, 14900..15027, 15126..15326, 15425..15541, 15664..15795, 15908..16335		
GI Descrip.	(AC002339) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120946	Strand	+

Start	4270	End	16335
Name	OJ000250_34.0419.C71.o3.np	Method	AAT/NAP
Start	11400	End	16285
GI	2335096	Score	541
Exons	11400..11565, 11693..11776, 12108..12184, 12374..12624, 13010..13304, 13628..14235, 14590..14665, 14900..15027, 15126..15326, 15425..15541, 15664..15795, 15908..16034, 16245..16285		
GI Descrip.	(AC002339) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120946	Strand	+
Start	4270	End	16335
Name	OJ000250_34.0419.C71.o3.gp	Method	AAT/GAP
Start	13956	End	15276
GI	LIB3433-047-P1-K1-D2	Score	892
Exons	13956..13990, 14086..14235, 14590..14665, 14900..15027, 15126..15276		
GI Descrip.	'2335096 3.0e-19 (AC002339) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120947	Strand	-
Start	496	End	3618
Name	OJ000250_34.0419.C71.o1.gs	Method	GENSCAN
Start	496	End	2617
GI	none	Score	.91
Exons	496..756, 877..1179, 1406..1567, 1654..1852, 2067..2248, 2489..2617		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120947	Strand	-
Start	496	End	3618
Name	OJ000250_34.0419.C71.o1.np	Method	AAT/NAP
Start	505	End	2674
GI	4006871	Score	736
Exons	505..756, 877..1179, 1406..1567, 1654..1817, 2043..2248, 2489..2674		
GI Descrip.	(Z99707) patatin-like protein [Arabidopsis thaliana] gi|7270654|emb|CAB80371.1| (AL161590) patatin-like protein [Arabidopsis thaliana]		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120947	Strand	-
Start	496	End	3618
Name	OJ000250_34.0419.C71.o1.gp	Method	AAT/GAP
Start	1657	End	3618
GI	uC-osflcyp176e09b1	Score	1008
Exons	1657..1852, 2067..2248, 2489..2608, 3575..3618		
GI Descrip.	'4191779 3.0e-72 (AC005917) putative recA protein [Arabidopsis thaliana]'		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o4.tm	Method	TBLASTX:Maize
Start	517	End	1180

GI	none	Score	75
Exons	517..657, 649..762, 877..1179, 881..1180		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o2.tc	Method	TBLASTX:Cress
Start	529	End	2594
GI	none	Score	82
Exons	529..588, 880..1179, 968..1180, 1406..1585, 1407..1532, 1651..1809, 1670..1798, 2072..2122, 2073..2123, 2148..2240, 2153..2248, 2487..2594, 2489..2593		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o4.ts	Method	TBLASTX:Soybean
Start	619	End	1149
GI	none	Score	72
Exons	619..762, 877..981, 1000..1149, 1010..1120		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o2.tm	Method	TBLASTX:Maize
Start	1406	End	2633
GI	none	Score	75
Exons	1406..1462, 1407..1463, 1463..1585, 1464..1568, 1645..1863, 1655..1864, 2066..2122, 2067..2123, 2075..2125, 2121..2240, 2123..2251, 2123..2251, 2124..2285, 2478..2633, 2478..2618, 2483..2629		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o2.ts	Method	TBLASTX:Soybean
Start	1406	End	2596
GI	none	Score	40
Exons	1406..1444, 1475..1585, 1485..1547, 1651..1794, 1667..1744, 2090..2224, 2130..2222, 2489..2596		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o2.tw	Method	TBLASTX:Wheat
Start	3589	End	4808
GI	none	Score	102
Exons	3589..3663, 3593..3688, 3597..3689, 3601..3753, 4007..4114, 4022..4135, 4024..4131, 4501..4587, 4507..4587, 4517..4594, 4704..4808, 4705..4806, 4710..4808		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o1.tc	Method	TBLASTX:Cress
Start	10565	End	11779
GI	none	Score	193

Exons	10565..10690, 10566..10694, 10876..10956, 10877..10963, 11249..11362, 11249..11302, 11299..11361, 11448..11558, 11452..11574, 11654..11779, 11659..11697		
Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o6.ts	Method	TBLASTX:Soybean
Start	10568	End	11305
GI	none	Score	186
Exons	10568..10690, 10569..10694, 10882..10956, 10883..10957, 11249..11305		
Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o6.tm	Method	TBLASTX:Maize
Start	11463	End	12158
GI	none	Score	136
Exons	11463..11567, 11464..11568, 11624..11776, 11644..11784, 11648..11782, 12096..12158, 12106..12156, 12107..12157		
Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o5.ts	Method	TBLASTX:Soybean
Start	12704	End	12900
GI	none	Score	192
Exons	12704..12898, 12710..12850, 12715..12900		
Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o3.ts	Method	TBLASTX:Soybean
Start	13008	End	13424
GI	none	Score	197
Exons	13008..13307, 13010..13306, 13050..13313, 13388..13417, 13392..13424		
Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o1.tm	Method	TBLASTX:Maize
Start	13088	End	13953
GI	none	Score	52
Exons	13088..13129, 13088..13129, 13103..13306, 13134..13337, 13155..13307, 13174..13338, 13377..13448, 13379..13543, 13386..13544, 13390..13554, 13587..13934, 13625..13945, 13625..13939, 13627..13953		
Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o3.tm	Method	TBLASTX:Maize
Start	15208	End	15723
GI	none	Score	134
Exons	15208..15324, 15209..15325, 15210..15326, 15420..15593,		

15425..15565, 15426..15581, 15427..15594, 15655..15723

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o1.tw	Method	TBLASTX:Wheat
Start	15440	End	16045
GI	none	Score	222
Exons	15440..15565, 15440..15565, 15441..15566, 15442..15573, 15484..15594, 15623..15784, 15659..15793, 15661..15798, 15661..15795, 15711..15797, 15907..16044, 15908..16045		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o1.ts	Method	TBLASTX:Soybean
Start	15443	End	16051
GI	none	Score	109
Exons	15443..15568, 15658..15798, 15711..15806, 15907..16044, 15908..16051		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o5.tm	Method	TBLASTX:Maize
Start	16003	End	16514
GI	none	Score	74
Exons	16003..16095, 16003..16098, 16004..16102, 16191..16346, 16191..16346, 16241..16372, 16467..16514		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o3.gs	Method	GENSCAN
Start	16140	End	17554
GI	none	Score	.49
Exons	16140..16510, 16622..16771, 17134..17343, 17413..17554		

Seq. No.	57827	Seq. ID	OJ000250_34.0419.C71
Gene No.	120948	Strand	-
Start	16140	End	17554
Name	OJ000250_34.0419.C71.o4.gp	Method	AAT/GAP
Start	16200	End	16565
GI	2799378	Score	674
Exons	16200..16565		

Seq. No.	57828	Seq. ID	OJ000250_34.0419.C72
Gene No.	120949	Strand	+
Start	367	End	873
Name	OJ000250_34.0419.C72.o1.gs	Method	GENSCAN
Start	367	End	873
GI	none	Score	.53
Exons	367..753, 835..873		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120950	Strand	+
Start	222	End	6055

Name	OJ000250_34.0419.C74.o1.gs	Method	GENSCAN
Start	222	End	6055
GI	none	Score	.8
Exons	222..337, 458..621, 3499..3543, 3852..3957, 4686..5269, 5508..5679, 5985..6055		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120951	Strand	+
Start	11839	End	12110
Name	OJ000250_34.0419.C74.o1.gp	Method	AAT/GAP
Start	11839	End	12110
GI	572216	Score	527
Exons	11839..12110		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120952	Strand	+
Start	12234	End	12844
Name	OJ000250_34.0419.C74.o2.gp	Method	AAT/GAP
Start	12234	End	12355
GI	4768977	Score	224
Exons	12234..12355		
GI Descrip.	4768978/gb|AAD29702.1|AF140489_1 9.0e-95 (AF140489) kiaa0078 protein [Oryza sativa]		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120952	Strand	+
Start	12234	End	12844
Name	OJ000250_34.0419.C74.o3.np	Method	AAT/NAP
Start	12235	End	12844
GI	4768978	Score	174
Exons	12235..12351, 12785..12844		
GI Descrip.	(AF140489) kiaa0078 protein [Oryza sativa]		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120953	Strand	-
Start	1522	End	3754
Name	OJ000250_34.0419.C74.o1.np	Method	AAT/NAP
Start	1522	End	3754
GI	7497302	Score	137
Exons	1522..1650, 1971..2062, 2218..2415, 2483..2538, 3732..3754		
GI Descrip.	hypothetical protein C41G7.6 - Caenorhabditis elegans gi|3874911|emb|CAB02844.1| (Z81048) cDNA EST EMBL:C13282 comes from this gene; cDNA EST yk232c5.3 comes from this gene; cDNA EST yk232c5.5 comes from this gene; cDNA EST yk364d3.3 comes from this gene; cDNA EST yk386a7.3 comes from this gene; cDNA EST yk386a7.5 comes from this g>		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120954	Strand	-
Start	7245	End	9630
Name	OJ000250_34.0419.C74.o2.gs	Method	GENSCAN
Start	7245	End	9630
GI	none	Score	.9
Exons	7245..7256, 9068..9304, 9319..9630		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120955	Strand	-

Start	11357	End	12077
Name	OJ000250_34.0419.C74.o3.gs	Method	GENSCAN
Start	11357	End	12077
GI	none	Score	.7
Exons	11357..11378, 11697..12077		

Seq. No.	57829	Seq. ID	OJ000250_34.0419.C74
Gene No.	120956	Strand	
Start	12188	End	12354
Name	OJ000250_34.0419.C74.o1.tm	Method	TBLASTX:Maize
Start	12188	End	12354
GI	none	Score	91
Exons	12188..12283, 12216..12287, 12217..12354, 12231..12353		

Seq. No.	57830	Seq. ID	OJ000250_34.0419.C75
Gene No.	120957	Strand	+
Start	892	End	4880
Name	OJ000250_34.0419.C75.o1.gs	Method	GENSCAN
Start	892	End	4880
GI	none	Score	.87
Exons	892..946, 2843..3101, 3185..3279, 3378..3427, 3982..4031, 4430..4880		

Seq. No.	57830	Seq. ID	OJ000250_34.0419.C75
Gene No.	120957	Strand	+
Start	892	End	4880
Name	OJ000250_34.0419.C75.o1.np	Method	AAT/NAP
Start	2352	End	3409
GI	4768978	Score	583
Exons	2352..2472, 2843..3101, 3185..3279, 3378..3409		
GI Descrip.	(AF140489) kiaa0078 protein [Oryza sativa]		

Seq. No.	57830	Seq. ID	OJ000250_34.0419.C75
Gene No.	120957	Strand	+
Start	892	End	4880
Name	OJ000250_34.0419.C75.o2.tm	Method	TBLASTX:Maize
Start	2841	End	3026
GI	none	Score	120
Exons	2841..2954, 2841..2960, 2842..2988, 2848..2985, 2953..2994, 2958..3026		

Seq. No.	57830	Seq. ID	OJ000250_34.0419.C75
Gene No.	120957	Strand	+
Start	892	End	4880
Name	OJ000250_34.0419.C75.o1.gp	Method	AAT/GAP
Start	2842	End	3410
GI	4768977	Score	714
Exons	2842..3101, 3185..3279, 3378..3410		
GI Descrip.	4768978/gb|AAD29702.1|AF140489_1 9.0e-95 (AF140489) kiaa0078 protein [Oryza sativa]		

Seq. No.	57830	Seq. ID	OJ000250_34.0419.C75
Gene No.	120957	Strand	+
Start	892	End	4880
Name	OJ000250_34.0419.C75.o1.tc	Method	TBLASTX:Cress
Start	3013	End	3433
GI	none	Score	118

Exons	3013..3087, 3015..3086, 3186..3278, 3191..3277, 3191..3286, 3195..3278, 3377..3433		
Seq. No.	57830	Seq. ID	OJ000250_34.0419.C75
Gene No.	120957	Strand	+
Start	892	End	4880
Name	OJ000250_34.0419.C75.o3.tm	Method	TBLASTX:Maize
Start	4420	End	4662
GI	none	Score	84
Exons	4420..4518, 4431..4541, 4431..4517, 4432..4527, 4510..4662, 4518..4625, 4519..4656		
Seq. No.	57830	Seq. ID	OJ000250_34.0419.C75
Gene No.	120957	Strand	+
Start	892	End	4880
Name	OJ000250_34.0419.C75.o1.tm	Method	TBLASTX:Maize
Start	4698	End	4856
GI	none	Score	261
Exons	4698..4856, 4703..4834, 4704..4838		
Seq. No.	57831	Seq. ID	OJ000250_34.0419.C76
Gene No.	120958	Strand	+
Start	77	End	1013
Name	OJ000250_34.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	25	End	251
GI	none	Score	125
Exons	25..237, 25..222, 30..251, 35..250		
Seq. No.	57831	Seq. ID	OJ000250_34.0419.C76
Gene No.	120958	Strand	+
Start	77	End	1013
Name	OJ000250_34.0419.C76.o1.gs	Method	GENSCAN
Start	77	End	1013
GI	none	Score	.91
Exons	77..383, 465..609, 877..1013		
Seq. No.	57831	Seq. ID	OJ000250_34.0419.C76
Gene No.	120958	Strand	+
Start	77	End	1013
Name	OJ000250_34.0419.C76.o1.ts	Method	TBLASTX:Soybean
Start	242	End	1012
GI	none	Score	82
Exons	242..382, 877..1005, 878..1012		
Seq. No.	57832	Seq. ID	OJ000250_34.0419.C77
Gene No.	120959	Strand	+
Start	116	End	8256
Name	OJ000250_34.0419.C77.o1.gs	Method	GENSCAN
Start	116	End	8256
GI	none	Score	.64
Exons	116..252, 429..1204, 1364..1397, 1943..2051, 2141..2270, 2553..2638, 3261..3309, 3493..3909, 5377..5543, 5965..6081, 6706..6789, 6952..7074, 7084..7144, 7529..7690, 8143..8256		
Seq. No.	57832	Seq. ID	OJ000250_34.0419.C77
Gene No.	120959	Strand	+
Start	116	End	8256

Name	OJ000250_34.0419.C77.o1.gp	Method	AAT/GAP
Start	529	End	1130
GI	none	Score	1043
Exons	529..1130		

Seq. No.	57832	Seq. ID	OJ000250_34.0419.C77
Gene No.	120959	Strand	+
Start	116	End	8256
Name	OJ000250_34.0419.C77.o2.gp	Method	AAT/GAP
Start	1364	End	1858
GI	uC-osf1M202037f07b1	Score	753
Exons	1364..1611, 1687..1858		
GI Descrip.	'4768978/gb|AAD29702.1|AF140489_1 9.0e-95 (AF140489) kiaa0078 protein [Oryza sativa]'		

Seq. No.	57832	Seq. ID	OJ000250_34.0419.C77
Gene No.	120960	Strand	-
Start	9046	End	9589
Name	OJ000250_34.0419.C77.o1.tm	Method	TBLASTX:Maize
Start	608	End	1129
GI	none	Score	70
Exons	608..712, 610..711, 783..854, 798..854, 896..1099, 897..1100, 910..1128, 911..1129, 1024..1128, 1025..1129, 1058..1102		

Seq. No.	57832	Seq. ID	OJ000250_34.0419.C77
Gene No.	120960	Strand	-
Start	9046	End	9589
Name	OJ000250_34.0419.C77.o2.tm	Method	TBLASTX:Maize
Start	2010	End	2696
GI	none	Score	75
Exons	2010..2051, 2011..2052, 2139..2273, 2140..2271, 2141..2272, 2142..2273, 2552..2686, 2553..2654, 2655..2696		

Seq. No.	57832	Seq. ID	OJ000250_34.0419.C77
Gene No.	120960	Strand	-
Start	9046	End	9589
Name	OJ000250_34.0419.C77.o2.gs	Method	GENSCAN
Start	9046	End	9589
GI	none	Score	.77
Exons	9046..9255, 9533..9589		

Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120961	Strand	+
Start	1	End	3310
Name	OJ000250_34.0419.C78.o1.np	Method	AAT/NAP
Start	1	End	3310
GI	6503010	Score	1526
Exons	1..21, 265..929, 1129..1232, 1322..1527, 2119..2366, 2457..2699, 2727..3310		
GI Descrip.	(AF174427) formin-like protein AHF1 [Arabidopsis thaliana]		

Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120961	Strand	+
Start	1	End	3310
Name	OJ000250_34.0419.C78.o1.gs	Method	GENSCAN
Start	214	End	3284
GI	none	Score	.97

Exons	214..1232, 1322..1527, 2119..2366, 2457..3284		
Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120961	Strand	+
Start	1	End	3310
Name	OJ000250_34.0419.C78.o1.gp	Method	AAT/GAP
Start	2122	End	2814
GI	24131_1.R1084	Score	1156
Exons	2122..2366, 2457..2814		
GI Descrip.	'2281090 6.0e-58 (AC002333) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-
Start	7455	End	7736
Name	OJ000250_34.0419.C78.o1.tc	Method	TBLASTX:Cress
Start	1353	End	2699
GI	none	Score	82
Exons	1353..1505, 2120..2176, 2121..2177, 2219..2365, 2220..2366, 2228..2368, 2449..2679, 2454..2699, 2454..2678, 2507..2689		
Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-
Start	7455	End	7736
Name	OJ000250_34.0419.C78.o3.tm	Method	TBLASTX:Maize
Start	1380	End	2213
GI	none	Score	225
Exons	1380..1580, 1407..1559, 1448..1564, 2111..2176, 2116..2172, 2118..2213, 2118..2213		
Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-
Start	7455	End	7736
Name	OJ000250_34.0419.C78.o3.ts	Method	TBLASTX:Soybean
Start	1425	End	2365
GI	none	Score	146
Exons	1425..1526, 1428..1580, 2118..2177, 2219..2365, 2220..2363		
Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-
Start	7455	End	7736
Name	OJ000250_34.0419.C78.o1.tm	Method	TBLASTX:Maize
Start	2216	End	2768
GI	none	Score	239
Exons	2216..2365, 2217..2366, 2242..2367, 2454..2768, 2454..2765, 2459..2767		
Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-
Start	7455	End	7736
Name	OJ000250_34.0419.C78.o2.ts	Method	TBLASTX:Soybean
Start	2454	End	2882
GI	none	Score	237
Exons	2454..2669, 2455..2670, 2507..2668, 2745..2882		
Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-

Start	7455	End	7736
Name	OJ000250_34.0419.C78.o2.tm	Method	TBLASTX:Maize
Start	2882	End	3280
GI	none	Score	547
Exons	2882..3280, 2883..3239, 3022..3264, 3149..3268		

Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-
Start	7455	End	7736
Name	OJ000250_34.0419.C78.o1.ts	Method	TBLASTX:Soybean
Start	2886	End	3253
GI	none	Score	115
Exons	2886..3020, 2886..3017, 3009..3215, 3020..3253		

Seq. No.	57833	Seq. ID	OJ000250_34.0419.C78
Gene No.	120962	Strand	-
Start	7455	End	7736
Name	OJ000250_34.0419.C78.o2.gp	Method	AAT/GAP
Start	7455	End	7736
GI	3161_1.R1084	Score	475
Exons	7455..7736		
GI Descrip.	'1236961 6.0e-30 (U50201) prunasin hydrolase precursor [Prunus serotina]'		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o1.gp	Method	AAT/GAP
Start	1	End	872
GI	3161_1.R1084	Score	458
Exons	1..111, 196..304, 842..872		
GI Descrip.	'1236961 6.0e-30 (U50201) prunasin hydrolase precursor [Prunus serotina]'		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o1.ts	Method	TBLASTX:Soybean
Start	1	End	311
GI	none	Score	180
Exons	1..114, 3..113, 4..114, 178..306, 195..311, 195..305		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o1.tm	Method	TBLASTX:Maize
Start	1	End	2176
GI	none	Score	180
Exons	1..114, 3..113, 4..114, 178..306, 195..311, 195..305, 835..945, 840..947, 1031..1069, 1033..1065, 1565..1774, 1567..1779, 1567..1776, 1668..1784, 2141..2176		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o1.np	Method	AAT/NAP
Start	1	End	2606

GI	7489456	Score	407
Exons	1..111, 196..293, 837..1038, 1628..1777, 2145..2260, 2463..2606		
GI Descrip.	beta-glucosidase (EC 3.2.1.21), chloroplast - rice gi|1143864|gb|AAA84906.1| (U28047) beta glucosidase [Oryza sativa]		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o1.tc	Method	TBLASTX:Cress
Start	6	End	1779
GI	none	Score	132
Exons	6..110, 7..111, 201..293, 840..947, 1624..1776, 1642..1779		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o1.gs	Method	GENSCAN
Start	34	End	2260
GI	none	Score	.66
Exons	34..111, 196..304, 842..944, 1033..1067, 1566..1777, 2145..2260		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o2.tm	Method	TBLASTX:Maize
Start	2214	End	2606
GI	none	Score	57
Exons	2214..2261, 2215..2262, 2216..2260, 2457..2606, 2471..2605		

Seq. No.	57834	Seq. ID	OJ000250_34.0419.C79
Gene No.	120963	Strand	-
Start	1	End	2606
Name	OJ000250_34.0419.C79.o2.gp	Method	AAT/GAP
Start	2437	End	2606
GI	none	Score	309
Exons	2437..2606		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120964	Strand	+
Start	559	End	724
Name	OJ000250_34.0419.C80.o1.gs	Method	GENSCAN
Start	559	End	724
GI	none	Score	.66
Exons	559..724		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120965	Strand	+
Start	7399	End	8943
Name	OJ000250_34.0419.C80.o4.gs	Method	GENSCAN
Start	7399	End	8943
GI	none	Score	.86
Exons	7399..7461, 8238..8409, 8522..8683, 8843..8943		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120966	Strand	+
Start	9662	End	16255

Name	OJ000250_34.0419.C80.o5.gs	Method	GENSCAN
Start	9662	End	12731
GI	none	Score	.7
Exons	9662..9819, 9917..9945, 10037..10204, 10260..10352, 10908..10999, 11185..11346, 12189..12268, 12620..12731		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120966	Strand	+
Start	9662	End	16255
Name	OJ000250_34.0419.C80.o2.np	Method	AAT/NAP
Start	9731	End	11857
GI	1076402	Score	422
Exons	9731..9849, 10037..10110, 10260..10365, 10908..10999, 11185..11346, 11721..11857		
GI Descrip.	S-like ribonuclease RNS2 - Arabidopsis thaliana		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120966	Strand	+
Start	9662	End	16255
Name	OJ000250_34.0419.C80.o3.gp	Method	AAT/GAP
Start	10513	End	10877
GI	2312232	Score	671
Exons	10513..10877		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120966	Strand	+
Start	9662	End	16255
Name	OJ000250_34.0419.C80.o3.np	Method	AAT/NAP
Start	11575	End	15596
GI	5902454	Score	431
Exons	11575..11629, 13185..13276, 13404..13532, 13821..13894, 14041..14142, 14436..14531, 14744..14905, 15465..15596		
GI Descrip.	(AB032256) RNase NGR2 [Nicotiana glutinosa]		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120966	Strand	+
Start	9662	End	16255
Name	OJ000250_34.0419.C80.o4.gp	Method	AAT/GAP
Start	13215	End	16029
GI	5144_2.R1084	Score	2261
Exons	13215..13501, 13652..13680, 13821..13894, 14041..14142, 14436..14531, 14744..14905, 15465..15561, 15652..16029		
GI Descrip.	'1173104/sp|P42814|RNS2_ARATH 2.0e-69 RIBONUCLEASE 2 PRECURSOR >gi_289210 (M98336) ribonuclease [Arabidopsis thaliana] >gi_2642160 (AC003000) ribonuclease, RNS2 [Arabidopsis thaliana]'		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120966	Strand	+
Start	9662	End	16255
Name	OJ000250_34.0419.C80.o6.gs	Method	GENSCAN
Start	13278	End	16255
GI	none	Score	.75
Exons	13278..13501, 13652..13680, 13821..13894, 13927..14034, 14041..14142, 14442..14531, 14744..14905, 15465..15561, 16197..16255		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120967	Strand	-
Start	839	End	2003
Name	OJ000250_34.0419.C80.o1.gp	Method	AAT/GAP
Start	839	End	2003
GI	26364_1.R1084	Score	519
Exons	839..889, 967..1033, 1833..2003		
GI Descrip.	'3402817/emb|CAA07704| 2.0e-35 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120968	Strand	-
Start	4549	End	6243
Name	OJ000250_34.0419.C80.o5.tm	Method	TBLASTX:Maize
Start	4353	End	4719
GI	none	Score	54
Exons	4353..4493, 4391..4510, 4393..4440, 4394..4507, 4532..4582, 4536..4583, 4544..4609, 4555..4719, 4577..4717, 4585..4719		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120968	Strand	-
Start	4549	End	6243
Name	OJ000250_34.0419.C80.o1.np	Method	AAT/NAP
Start	4534	End	5766
GI	6957728	Score	908
Exons	4534..5766		
GI Descrip.	(AC021640) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120968	Strand	-
Start	4549	End	6243
Name	OJ000250_34.0419.C80.o3.gs	Method	GENSCAN
Start	4549	End	6243
GI	none	Score	.82
Exons	4549..6243		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120968	Strand	-
Start	4549	End	6243
Name	OJ000250_34.0419.C80.o1.ts	Method	TBLASTX:Soybean
Start	4628	End	5025
GI	none	Score	111
Exons	4628..4930, 4630..4929, 4804..5025		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120968	Strand	-
Start	4549	End	6243
Name	OJ000250_34.0419.C80.o2.tc	Method	TBLASTX:Cress
Start	4663	End	5493
GI	none	Score	82
Exons	4663..4833, 4699..4971, 4705..4821, 4735..5082, 4774..4926, 4873..5148, 5224..5493		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120968	Strand	-
Start	4549	End	6243
Name	OJ000250_34.0419.C80.o2.tm	Method	TBLASTX:Maize

Start	4720	End	4964
GI	none	Score	277
Exons	4720..4962, 4724..4963, 4725..4964		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120968	Strand	-
Start	4549	End	6243
Name	OJ000250_34.0419.C80.o1.tm	Method	TBLASTX:Maize
Start	4964	End	5874
GI	none	Score	121
Exons	4964..4999, 5035..5796, 5068..5190, 5068..5769, 5068..5190, 5069..5194, 5771..5863, 5773..5874		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120969	Strand	
Start	7007	End	7232
Name	OJ000250_34.0419.C80.o3.tm	Method	TBLASTX:Maize
Start	7007	End	7232
GI	none	Score	199
Exons	7007..7081, 7068..7229, 7080..7232		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120969	Strand	
Start	7007	End	7232
Name	OJ000250_34.0419.C80.o1.tc	Method	TBLASTX:Cress
Start	7080	End	7230
GI	none	Score	136
Exons	7080..7229, 7102..7230		

Seq. No.	57835	Seq. ID	OJ000250_34.0419.C80
Gene No.	120970	Strand	
Start	11143	End	15694
Name	OJ000250_34.0419.C80.o4.tm	Method	TBLASTX:Maize
Start	11143	End	15694
GI	none	Score	125
Exons	11143..11340, 11227..11346, 11715..11735, 11757..11804, 14480..14536, 14481..14531, 14743..14904, 14744..14905, 15461..15556, 15462..15560, 15650..15694		

Seq. No.	57836	Seq. ID	OJ000250_34.0419.C82
Gene No.	120971	Strand	-
Start	103	End	1727
Name	OJ000250_34.0419.C82.o1.gs	Method	GENSCAN
Start	103	End	1727
GI	none	Score	.71
Exons	103..611, 1385..1727		

Seq. No.	57836	Seq. ID	OJ000250_34.0419.C82
Gene No.	120971	Strand	-
Start	103	End	1727
Name	OJ000250_34.0419.C82.o1.tm	Method	TBLASTX:Maize
Start	283	End	535
GI	none	Score	265
Exons	283..534, 289..534, 290..535		

Seq. No.	57836	Seq. ID	OJ000250_34.0419.C82
Gene No.	120971	Strand	-

Start	103	End	1727
Name	OJ000250_34.0419.C82.o2.tm	Method	TBLASTX:Maize
Start	1367	End	1682
GI	none	Score	156
Exons	1367..1591, 1383..1682, 1384..1674, 1410..1682		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120972	Strand	+
Start	54	End	2853
Name	OJ000250_34.0419.C83.o1.gs	Method	GENSCAN
Start	54	End	2611
GI	none	Score	.57
Exons	54..418, 1297..1370, 2158..2296, 2519..2611		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120972	Strand	+
Start	54	End	2853
Name	OJ000250_34.0419.C83.o1.np	Method	AAT/NAP
Start	77	End	2608
GI	7434326	Score	1141
Exons	77..418, 935..996, 1106..1217, 1297..1390, 1771..1840, 2158..2296, 2519..2608		
GI Descrip.	probable cdc2-like protein kinase cdc2MsD - alfalfa gi|1806142|emb|CAA65980.1| (X97315) cdc2MsD [Medicago sativa]		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120972	Strand	+
Start	54	End	2853
Name	OJ000250_34.0419.C83.o1.gp	Method	AAT/GAP
Start	145	End	1167
GI	LIB3433-060-P1-K1-H10	Score	679
Exons	145..418, 935..996, 1106..1167		
GI Descrip.	'5921446/sp|Q38774|CC2C_ANTMA 1.0e-52 CELL DIVISION CONTROL PROTEIN 2 HOMOLOG C >gi_1321676_emb_CAA66235_ (X97639) cyclin-dependent kinas [Antirrhinum majus]'		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120972	Strand	+
Start	54	End	2853
Name	OJ000250_34.0419.C83.o2.gp	Method	AAT/GAP
Start	2510	End	2853
GI	none	Score	599
Exons	2510..2853		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120973	Strand	+
Start	3924	End	6639
Name	OJ000250_34.0419.C83.o1.ts	Method	TBLASTX:Soybean
Start	62	End	1220
GI	none	Score	267
Exons	62..292, 299..397, 953..997, 1107..1136, 1152..1220, 1157..1216		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120973	Strand	+
Start	3924	End	6639
Name	OJ000250_34.0419.C83.o2.tm	Method	TBLASTX:Maize
Start	62	End	292

GI	none	Score	274
Exons	62..292		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120973	Strand	+
Start	3924	End	6639
Name	OJ000250_34.0419.C83.o1.tc	Method	TBLASTX:Cress
Start	77	End	2611
GI	none	Score	305
Exons	77..289, 133..291, 296..418, 307..366, 946..999, 953..997, 1106..1216, 1107..1223, 1277..1387, 1294..1401, 1296..1388, 1769..1843, 1770..1841, 2155..2292, 2156..2296, 2507..2611, 2509..2607		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120973	Strand	+
Start	3924	End	6639
Name	OJ000250_34.0419.C83.o1.tw	Method	TBLASTX:Wheat
Start	158	End	1216
GI	none	Score	152
Exons	158..292, 298..360, 299..430, 934..999, 953..997, 1098..1214, 1106..1216, 1107..1214		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120973	Strand	+
Start	3924	End	6639
Name	OJ000250_34.0419.C83.o1.tm	Method	TBLASTX:Maize
Start	329	End	2759
GI	none	Score	122
Exons	329..418, 948..995, 952..996, 952..999, 953..997, 1090..1218, 1106..1216, 1107..1223, 1294..1389, 1296..1388, 1769..1843, 1770..1841, 2155..2295, 2156..2296, 2195..2299, 2507..2611, 2509..2610, 2518..2622, 2730..2759		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120973	Strand	+
Start	3924	End	6639
Name	OJ000250_34.0419.C83.o2.ts	Method	TBLASTX:Soybean
Start	1294	End	2578
GI	none	Score	174
Exons	1294..1401, 1296..1388, 1769..1840, 1770..1841, 2155..2295, 2156..2296, 2507..2578		

Seq. No.	57837	Seq. ID	OJ000250_34.0419.C83
Gene No.	120973	Strand	+
Start	3924	End	6639
Name	OJ000250_34.0419.C83.o2.gs	Method	GENSCAN
Start	3924	End	6639
GI	none	Score	.89
Exons	3924..4592, 6015..6155, 6511..6639		

Seq. No.	57838	Seq. ID	OJ000250_34.0419.C84
Gene No.	120974	Strand	-
Start	821	End	964
Name	OJ000250_34.0419.C84.o1.gp	Method	AAT/GAP
Start	821	End	964
GI	LIB3434-029-P1-K1-H10	Score	158

Exons	821..964		
GI Descrip.	'20163/emb|X64622|OS5SRRNMR 1.0e-136 O.sativa Rrl5 mRNA for 5S ribosomal RNA'		
Seq. No.	57839	Seq. ID	OJ000250_34.0419.C87
Gene No.	120975	Strand	+
Start	213	End	639
Name	OJ000250_34.0419.C87.o1.gs	Method	GENSCAN
Start	213	End	639
GI	none	Score	.86
Exons	213..279, 558..639		
Seq. No.	57840	Seq. ID	OJ000250_34.0419.C92
Gene No.	120976	Strand	+
Start	301	End	866
Name	OJ000250_34.0419.C92.o1.gp	Method	AAT/GAP
Start	301	End	866
GI	24131_1.R1084	Score	699
Exons	301..660, 751..866		
GI Descrip.	'2281090 6.0e-58 (AC002333) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	57840	Seq. ID	OJ000250_34.0419.C92
Gene No.	120977	Strand	-
Start	1	End	1091
Name	OJ000250_34.0419.C92.o1.np	Method	AAT/NAP
Start	1	End	1091
GI	6503010	Score	672
Exons	1..388, 416..658, 749..1091		
GI Descrip.	(AF174427) formin-like protein AHF1 [Arabidopsis thaliana]		
Seq. No.	57840	Seq. ID	OJ000250_34.0419.C92
Gene No.	120977	Strand	-
Start	1	End	1091
Name	OJ000250_34.0419.C92.o2.tm	Method	TBLASTX:Maize
Start	65	End	214
GI	none	Score	138
Exons	65..214, 66..212, 71..214		
Seq. No.	57840	Seq. ID	OJ000250_34.0419.C92
Gene No.	120977	Strand	-
Start	1	End	1091
Name	OJ000250_34.0419.C92.o1.gs	Method	GENSCAN
Start	76	End	658
GI	none	Score	.79
Exons	76..658		
Seq. No.	57840	Seq. ID	OJ000250_34.0419.C92
Gene No.	120977	Strand	-
Start	1	End	1091
Name	OJ000250_34.0419.C92.o1.tm	Method	TBLASTX:Maize
Start	215	End	607
GI	none	Score	416
Exons	215..607, 216..605		
Seq. No.	57840	Seq. ID	OJ000250_34.0419.C92
Gene No.	120977	Strand	-

Start	1	End	1091
Name	OJ000250_34.0419.C92.o1.ts	Method	TBLASTX:Soybean
Start	233	End	669
GI	none	Score	194
Exons	233..370, 446..661, 447..608,	448..669,	596..661

Seq. No.	57840	Seq. ID	OJ000250_34.0419.C92
Gene No.	120977	Strand	-
Start	1	End	1091
Name	OJ000250_34.0419.C92.o1.tc	Method	TBLASTX:Cress
Start	416	End	865
GI	none	Score	246
Exons	416..661, 426..608, 437..661,	752..865	

Seq. No.	57841	Seq. ID	OJ000250_34.0419.C99
Gene No.	120978	Strand	+
Start	1	End	762
Name	OJ000250_34.0419.C99.o1.np	Method	AAT/NAP
Start	1	End	762
GI	4887624	Score	221
Exons	1..63, 162..243, 314..449,	744..762	
GI Descrip.	(AB027228) FAS1 [Arabidopsis thaliana]		

Seq. No.	57841	Seq. ID	OJ000250_34.0419.C99
Gene No.	120978	Strand	+
Start	1	End	762
Name	OJ000250_34.0419.C99.o1.gs	Method	GENSCAN
Start	162	End	457
GI	none	Score	.66
Exons	162..243, 290..457		

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100
Gene No.	120979	Strand	+
Start	1	End	1603
Name	OJ000250_34.0419.C100.o1.np	Method	AAT/NAP
Start	1	End	1548
GI	4887624	Score	389
Exons	1..73, 543..941, 1024..1161,	1297..1347,	1433..1548
GI Descrip.	(AB027228) FAS1 [Arabidopsis thaliana]		

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100
Gene No.	120979	Strand	+
Start	1	End	1603
Name	OJ000250_34.0419.C100.o1.gs	Method	GENSCAN
Start	543	End	1603
GI	none	Score	.96
Exons	543..941, 1024..1161, 1297..1342,	1434..1603	

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100
Gene No.	120980	Strand	-
Start	1254	End	2405
Name	OJ000250_34.0419.C100.o1.tm	Method	TBLASTX:Maize
Start	540	End	749
GI	none	Score	80
Exons	540..599, 567..749, 567..704,	590..748	

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100

Gene No.	120980	Strand	-
Start	1254	End	2405
Name	OJ000250_34.0419.C100.o2.tm	Method	TBLASTX:Maize
Start	888	End	1341
GI	none	Score	67
Exons	888..941, 894..944, 1012..1167, 1014..1169, 1294..1341, 1296..1340		

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100
Gene No.	120980	Strand	-
Start	1254	End	2405
Name	OJ000250_34.0419.C100.o1.ts	Method	TBLASTX:Soybean
Start	1057	End	1492
GI	none	Score	134
Exons	1057..1167, 1059..1169, 1248..1328, 1291..1341, 1436..1492, 1447..1491		

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100
Gene No.	120980	Strand	-
Start	1254	End	2405
Name	OJ000250_34.0419.C100.o2.np	Method	AAT/NAP
Start	1254	End	2405
GI	6957727	Score	189
Exons	1254..1351, 2179..2405		
GI Descrip.	(AC021640) unknown protein [Arabidopsis thaliana]		

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100
Gene No.	120980	Strand	-
Start	1254	End	2405
Name	OJ000250_34.0419.C100.o2.gs	Method	GENSCAN
Start	2117	End	2353
GI	none	Score	.91
Exons	2117..2353		

Seq. No.	57842	Seq. ID	OJ000250_34.0419.C100
Gene No.	120980	Strand	-
Start	1254	End	2405
Name	OJ000250_34.0419.C100.o1.tc	Method	TBLASTX:Cress
Start	2195	End	2404
GI	none	Score	103
Exons	2195..2404, 2229..2369		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101
Gene No.	120981	Strand	+
Start	7811	End	8841
Name	OJ000250_34.0419.C101.o3.gp	Method	AAT/GAP
Start	7811	End	8841
GI	211_1.R1084	Score	350
Exons	7811..7898, 8620..8692, 8790..8841		
GI Descrip.	'3915826/sp|P49625|RL5_ORYSA 1.0e-147 60S RIBOSOMAL PROTEIN L5'		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101
Gene No.	120982	Strand	-
Start	703	End	8155
Name	OJ000250_34.0419.C101.o1.gs	Method	GENSCAN
Start	703	End	8155
GI	none	Score	.66

Exons	703..781, 1216..1404, 1569..1627, 1800..1846, 2523..2553, 3019..3114, 3198..3281, 3371..3463, 3764..3841, 4197..4287, 4367..4467, 4562..5380, 5475..5588, 6311..6405, 6558..6753, 6865..6922, 7927..8155		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101
Gene No.	120982	Strand	-
Start	703	End	8155
Name	OJ000250_34.0419.C101.o1.gp	Method	AAT/GAP
Start	897	End	1842
GI	none	Score	1135
Exons	897..1404, 1569..1627, 1800..1842		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101
Gene No.	120982	Strand	-
Start	703	End	8155
Name	OJ000250_34.0419.C101.o1.np	Method	AAT/NAP
Start	1170	End	5329
GI	7019672	Score	655
Exons	1170..1522, 1734..1918, 2764..2828, 3019..3095, 3233..3281, 3371..3564, 3760..3838, 4170..4287, 4367..4467, 4547..5329		
GI Descrip.	(AL138647) putative protein [Arabidopsis thaliana]		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101
Gene No.	120982	Strand	-
Start	703	End	8155
Name	OJ000250_34.0419.C101.o1.tm	Method	TBLASTX:Maize
Start	1227	End	4724
GI	none	Score	71
Exons	1227..1280, 1237..1278, 1278..1382, 1281..1382, 1282..1437, 1568..1627, 1569..1628, 1776..1847, 1789..1851, 2764..2820, 2766..2831, 2766..2831, 3017..3118, 3019..3117, 3035..3118, 3184..3282, 3198..3284, 3198..3290, 3199..3285, 3371..3460, 3375..3413, 3376..3474, 3376..3465, 3761..3841, 3765..3881, 4134..4283, 4135..4278, 4172..4288, 4349..4429, 4362..4469, 4366..4479, 4366..4479, 4559..4723, 4560..4724		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101
Gene No.	120982	Strand	-
Start	703	End	8155
Name	OJ000250_34.0419.C101.o1.ts	Method	TBLASTX:Soybean
Start	3091	End	4801
GI	none	Score	72
Exons	3091..3111, 3198..3275, 3205..3282, 3371..3427, 3428..3457, 3711..3875, 3761..3841, 4135..4281, 4173..4289, 4173..4280, 4369..4470, 4373..4429, 4559..4801		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101
Gene No.	120982	Strand	-
Start	703	End	8155
Name	OJ000250_34.0419.C101.o2.tm	Method	TBLASTX:Maize
Start	4724	End	4963
GI	none	Score	158
Exons	4724..4822, 4725..4823, 4802..4855, 4803..4853, 4865..4963, 4871..4960		

Seq. No.	57843	Seq. ID	OJ000250_34.0419.C101

Gene No.	120982	Strand	-
Start	703	End	8155
Name	OJ000250_34.0419.C101.o2.gp	Method	AAT/GAP
Start	5040	End	5542
GI	none	Score	698
Exons	5040..5380, 5475..5542		

Seq. No.	57844	Seq. ID	OJ000250_34.0419.C102
Gene No.	120983	Strand	-
Start	319	End	803
Name	OJ000250_34.0419.C102.o1.gs	Method	GENSCAN
Start	319	End	803
GI	none	Score	.65
Exons	319..455, 608..803		

Seq. No.	57845	Seq. ID	OJ000250_34.0419.C110
Gene No.	120984	Strand	+
Start	385	End	792
Name	OJ000250_34.0419.C110.o1.gs	Method	GENSCAN
Start	385	End	724
GI	none	Score	.97
Exons	385..724		

Seq. No.	57845	Seq. ID	OJ000250_34.0419.C110
Gene No.	120984	Strand	+
Start	385	End	792
Name	OJ000250_34.0419.C110.o1.np	Method	AAT/NAP
Start	385	End	792
GI	4680183	Score	633
Exons	385..792		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	57846	Seq. ID	OJ000250_34.0419.C114
Gene No.	120985	Strand	+
Start	305	End	508
Name	OJ000250_34.0419.C114.o1.gs	Method	GENSCAN
Start	305	End	508
GI	none	Score	.71
Exons	305..508		

Seq. No.	57847	Seq. ID	OJ000250_34.0419.C118
Gene No.	120986	Strand	+
Start	2	End	831
Name	OJ000250_34.0419.C118.o1.gs	Method	GENSCAN
Start	2	End	831
GI	none	Score	.97
Exons	2..134, 206..310, 383..831		

Seq. No.	57847	Seq. ID	OJ000250_34.0419.C118
Gene No.	120986	Strand	+
Start	2	End	831
Name	OJ000250_34.0419.C118.o1.np	Method	AAT/NAP
Start	370	End	828
GI	5902446	Score	718
Exons	370..828		
GI Descrip.	(AB030283) orf5 [Oryza sativa]		

Seq. No.	57848	Seq. ID	OJ000250_34.0419.C119
Gene No.	120987	Strand	-
Start	229	End	541
Name	OJ000250_34.0419.C119.o1.gs	Method	GENSCAN
Start	229	End	541
GI	none	Score	.9
Exons	229..383, 449..541		

Seq. No.	57849	Seq. ID	OJ000250_34.0419.C120
Gene No.	120988	Strand	+
Start	79	End	1571
Name	OJ000250_34.0419.C120.o1.gs	Method	GENSCAN
Start	79	End	1571
GI	none	Score	.56
Exons	79..154, 1465..1571		

Seq. No.	57850	Seq. ID	OJ000250_34.0419.C121
Gene No.	120989	Strand	+
Start	534	End	944
Name	OJ000250_34.0419.C121.o1.gs	Method	GENSCAN
Start	534	End	703
GI	none	Score	.6
Exons	534..703		

Seq. No.	57850	Seq. ID	OJ000250_34.0419.C121
Gene No.	120989	Strand	+
Start	534	End	944
Name	OJ000250_34.0419.C121.o1.np	Method	AAT/NAP
Start	575	End	944
GI	5902448	Score	601
Exons	575..944		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	57850	Seq. ID	OJ000250_34.0419.C121
Gene No.	120989	Strand	+
Start	534	End	944
Name	OJ000250_34.0419.C121.o1.tw	Method	TBLASTX:Wheat
Start	694	End	942
GI	none	Score	203
Exons	694..942		

Seq. No.	57851	Seq. ID	OJ000250_34.0419.C122
Gene No.	120990	Strand	+
Start	110	End	856
Name	OJ000250_34.0419.C122.o1.gs	Method	GENSCAN
Start	110	End	806
GI	none	Score	.59
Exons	110..806		

Seq. No.	57851	Seq. ID	OJ000250_34.0419.C122
Gene No.	120990	Strand	+
Start	110	End	856
Name	OJ000250_34.0419.C122.o1.np	Method	AAT/NAP
Start	110	End	856
GI	5902447	Score	1250
Exons	110..856		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		

Seq. No.	57852	Seq. ID	OJ000250_34.0419.C125
Gene No.	120991	Strand	-
Start	317	End	472
Name	OJ000250_34.0419.C125.o1.gs	Method	GENSCAN
Start	317	End	472
GI	none	Score	.68
Exons	317..472		

Seq. No.	57853	Seq. ID	OJ000250_34.0419.C126
Gene No.	120992	Strand	+
Start	49	End	829
Name	OJ000250_34.0419.C126.o1.gs	Method	GENSCAN
Start	49	End	829
GI	none	Score	.82
Exons	49..115, 153..319, 424..596, 742..829		

Seq. No.	57854	Seq. ID	OJ000250_34.0419.C134
Gene No.	120993	Strand	+
Start	658	End	945
Name	OJ000250_34.0419.C134.o1.gs	Method	GENSCAN
Start	658	End	945
GI	none	Score	.78
Exons	658..700, 818..945		

Seq. No.	57855	Seq. ID	OJ000250_34.0419.C135
Gene No.	120994	Strand	+
Start	475	End	542
Name	OJ000250_34.0419.C135.o1.gs	Method	GENSCAN
Start	475	End	542
GI	none	Score	.77
Exons	475..542		

Seq. No.	57856	Seq. ID	OJ000250_34.0419.C146
Gene No.	120995	Strand	+
Start	2	End	307
Name	OJ000250_34.0419.C146.o1.gs	Method	GENSCAN
Start	2	End	307
GI	none	Score	.62
Exons	2..307		

Seq. No.	57856	Seq. ID	OJ000250_34.0419.C146
Gene No.	120996	Strand	-
Start	1	End	811
Name	OJ000250_34.0419.C146.o1.gp	Method	AAT/GAP
Start	1	End	811
GI	70192_1.R1084	Score	671
Exons	1..176, 302..374, 694..811		
GI Descrip.	'3643610 6.0e-60 (AC005395) putative serine/threonine protein kinase [Arabidopsis thaliana]'		

Seq. No.	57856	Seq. ID	OJ000250_34.0419.C146
Gene No.	120996	Strand	-
Start	1	End	811
Name	OJ000250_34.0419.C146.o1.tm	Method	TBLASTX:Maize
Start	45	End	804
GI	none	Score	144

Exons	45..65, 69..179, 73..195, 299..376, 306..377, 332..379, 680..799, 682..804, 692..799, 693..803		
Seq. No.	57856	Seq. ID	OJ000250_34.0419.C146
Gene No.	120996	Strand	-
Start	1	End	811
Name	OJ000250_34.0419.C146.o1.np	Method	AAT/NAP
Start	78	End	811
GI	7434310	Score	350
Exons	78..176, 302..374, 694..811		
GI Descrip.	serine/threonine-specific protein kinase homolog T16I18.40 - Arabidopsis thaliana gi|7270230|emb|CAB80000.1| (AL161582) putative serine/threonine protein kinase [Arabidopsis thaliana]		
Seq. No.	57857	Seq. ID	OJ000250_34.0419.C155
Gene No.	120997	Strand	-
Start	1	End	815
Name	OJ000250_34.0419.C155.o1.np	Method	AAT/NAP
Start	1	End	815
GI	4680180	Score	1394
Exons	1..815		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	57857	Seq. ID	OJ000250_34.0419.C155
Gene No.	120997	Strand	-
Start	1	End	815
Name	OJ000250_34.0419.C155.o1.gs	Method	GENSCAN
Start	21	End	647
GI	none	Score	.58
Exons	21..647		
Seq. No.	57857	Seq. ID	OJ000250_34.0419.C155
Gene No.	120997	Strand	-
Start	1	End	815
Name	OJ000250_34.0419.C155.o1.tw	Method	TBLASTX:Wheat
Start	138	End	525
GI	none	Score	112
Exons	138..329, 138..524, 214..525		
Seq. No.	57857	Seq. ID	OJ000250_34.0419.C155
Gene No.	120997	Strand	-
Start	1	End	815
Name	OJ000250_34.0419.C155.o1.tm	Method	TBLASTX:Maize
Start	168	End	554
GI	none	Score	67
Exons	168..215, 169..216, 196..522, 207..554, 220..531		
Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	120998	Strand	+
Start	25	End	849
Name	OJ000320_38.0417.C1.o1.gs	Method	GENSCAN
Start	25	End	849
GI	none	Score	.97
Exons	25..48, 321..478, 630..849		
Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	120999	Strand	+

Start	3689	End	3978
Name	OJ000320_38.0417.C1.o1.gp	Method	AAT/GAP
Start	3689	End	3978
GI	none	Score	559
Exons	3689..3978		

Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	121000	Strand	+
Start	5596	End	9376
Name	OJ000320_38.0417.C1.o2.gp	Method	AAT/GAP
Start	5596	End	7503
GI	none	Score	1163
Exons	5596..5725, 7006..7503		

Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	121000	Strand	+
Start	5596	End	9376
Name	OJ000320_38.0417.C1.o3.gs	Method	GENSCAN
Start	6457	End	9376
GI	none	Score	.98
Exons	6457..6465, 6509..6515, 7006..7844, 8505..8802, 9360..9376		

Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	121000	Strand	+
Start	5596	End	9376
Name	OJ000320_38.0417.C1.o3.gp	Method	AAT/GAP
Start	7734	End	8806
GI	none	Score	772
Exons	7734..7844, 8505..8806		

Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	121001	Strand	-
Start	5357	End	8807
Name	OJ000320_38.0417.C1.o1.tm	Method	TBLASTX:Maize
Start	318	End	8807
GI	none	Score	116
Exons	318..479, 319..480, 319..480, 627..842, 628..843, 7011..7064, 7124..7168, 7187..7213, 7238..7357, 7239..7373, 7240..7374, 7409..7834, 7455..7844, 7455..7826, 7469..7843, 8504..8698, 8505..8702, 8506..8703, 8708..8800, 8711..8806, 8712..8807		

Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	121001	Strand	-
Start	5357	End	8807
Name	OJ000320_38.0417.C1.o1.np	Method	AAT/NAP
Start	5357	End	7329
GI	3204132	Score	103
Exons	5357..5376, 5648..6145, 7276..7329		
GI Descrip.	(AJ006770) extensin [Cicer arietinum]		

Seq. No.	57858	Seq. ID	OJ000320_38.0417.C1
Gene No.	121001	Strand	-
Start	5357	End	8807
Name	OJ000320_38.0417.C1.o1.ts	Method	TBLASTX:Soybean
Start	7324	End	8807
GI	none	Score	313
Exons	7324..7362, 7455..7766, 7455..7760, 7469..7765, 8504..8659,		

8505..8807, 8720..8806

Seq. No.	57859	Seq. ID	OJ000320_38.0417.C7
Gene No.	121002	Strand	+
Start	6428	End	6501
Name	OJ000320_38.0417.C7.o2.gp	Method	AAT/GAP
Start	6428	End	6501
GI	LIB3477-003-P1-K1-E9	Score	92
Exons	6428..6501		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	57859	Seq. ID	OJ000320_38.0417.C7
Gene No.	121003	Strand	-
Start	111	End	6702
Name	OJ000320_38.0417.C7.o1.gs	Method	GENSCAN
Start	111	End	6308
GI	none	Score	42
Exons	111..199, 530..746, 790..1090, 1165..1613, 1733..2001, 2984..3011, 3394..3570, 3608..3694, 3736..3878, 4156..4263, 6156..6308		

Seq. No.	57859	Seq. ID	OJ000320_38.0417.C7
Gene No.	121003	Strand	-
Start	111	End	6702
Name	OJ000320_38.0417.C7.o1.np	Method	AAT/NAP
Start	1237	End	1966
GI	7248393	Score	429
Exons	1237..1541, 1626..1966		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	57859	Seq. ID	OJ000320_38.0417.C7
Gene No.	121003	Strand	-
Start	111	End	6702
Name	OJ000320_38.0417.C7.o2.np	Method	AAT/NAP
Start	3321	End	6702
GI	7248394	Score	95
Exons	3321..3471, 4576..4772, 6668..6702		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	57859	Seq. ID	OJ000320_38.0417.C7
Gene No.	121003	Strand	-
Start	111	End	6702
Name	OJ000320_38.0417.C7.o1.gp	Method	AAT/GAP
Start	4972	End	5150
GI	none	Score	237
Exons	4972..5150		

Seq. No.	57860	Seq. ID	OJ000320_38.0417.C8
Gene No.	121004	Strand	+
Start	773	End	940
Name	OJ000320_38.0417.C8.o1.gs	Method	GENSCAN

Start	773	End	940
GI	none	Score	.69
Exons	773..940		

Seq. No.	57860	Seq. ID	OJ000320_38.0417.C8
Gene No.	121005	Strand	-
Start	1638	End	3778
Name	OJ000320_38.0417.C8.o2.gs	Method	GENSCAN
Start	1638	End	3778
GI	none	Score	.48
Exons	1638..1778, 2432..2501, 3073..3189, 3693..3778		

Seq. No.	57861	Seq. ID	OJ000320_38.0417.C9
Gene No.	121006	Strand	+
Start	340	End	640
Name	OJ000320_38.0417.C9.o1.gs	Method	GENSCAN
Start	340	End	640
GI	none	Score	.52
Exons	340..640		

Seq. No.	57862	Seq. ID	OJ000320_38.0417.C12
Gene No.	121007	Strand	+
Start	1	End	1009
Name	OJ000320_38.0417.C12.o1.np	Method	AAT/NAP
Start	1	End	1009
GI	7486147	Score	763
Exons	1..1009		
GI Descrip.	hypothetical protein F25I24.40 - Arabidopsis thaliana gi|4539357|emb|CAB40051.1| (AL049525) putative protein [Arabidopsis thaliana] gi|7267781|emb|CAB81184.1| (AL161518) putative protein [Arabidopsis thaliana]		

Seq. No.	57862	Seq. ID	OJ000320_38.0417.C12
Gene No.	121007	Strand	+
Start	1	End	1009
Name	OJ000320_38.0417.C12.o1.gs	Method	GENSCAN
Start	14	End	981
GI	none	Score	.81
Exons	14..981		

Seq. No.	57862	Seq. ID	OJ000320_38.0417.C12
Gene No.	121007	Strand	+
Start	1	End	1009
Name	OJ000320_38.0417.C12.o1.tw	Method	TBLASTX:Wheat
Start	152	End	532
GI	none	Score	242
Exons	152..370, 154..243, 164..343, 358..531, 365..532		

Seq. No.	57862	Seq. ID	OJ000320_38.0417.C12
Gene No.	121007	Strand	+
Start	1	End	1009
Name	OJ000320_38.0417.C12.o1.tm	Method	TBLASTX:Maize
Start	260	End	1009
GI	none	Score	199
Exons	260..550, 365..394, 466..549, 599..697, 734..1009		

Seq. No.	57862	Seq. ID	OJ000320_38.0417.C12

Gene No.	121007	Strand	+
Start	1	End	1009
Name	OJ000320_38.0417.C12.o1.ts	Method	TBLASTX:Soybean
Start	296	End	583
GI	none	Score	185
Exons	296..583		

Seq. No.	57862	Seq. ID	OJ000320_38.0417.C12
Gene No.	121007	Strand	+
Start	1	End	1009
Name	OJ000320_38.0417.C12.o2.tw	Method	TBLASTX:Wheat
Start	704	End	1009
GI	none	Score	303
Exons	704..1009, 814..1008		

Seq. No.	57863	Seq. ID	OJ000320_38.0417.C15
Gene No.	121008	Strand	-
Start	450	End	704
Name	OJ000320_38.0417.C15.o1.gs	Method	GENSCAN
Start	450	End	704
GI	none	Score	.96
Exons	450..704		

Seq. No.	57864	Seq. ID	OJ000320_38.0417.C16
Gene No.	121009	Strand	-
Start	1434	End	2199
Name	OJ000320_38.0417.C16.o1.gs	Method	GENSCAN
Start	1434	End	2199
GI	none	Score	.46
Exons	1434..2199		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121010	Strand	+
Start	384	End	7808
Name	OJ000320_38.0417.C17.o1.np	Method	AAT/NAP
Start	384	End	1199
GI	5922636	Score	503
Exons	384..667, 716..1199		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016869|dbj|BAA85212.1| (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121010	Strand	+
Start	384	End	7808
Name	OJ000320_38.0417.C17.o1.gs	Method	GENSCAN
Start	440	End	7808
GI	none	Score	.62
Exons	440..510, 702..909, 1541..1638, 2347..2478, 3027..3105, 3144..3881, 5690..6136, 6903..7035, 7374..7485, 7538..7808		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121010	Strand	+
Start	384	End	7808
Name	OJ000320_38.0417.C17.o2.np	Method	AAT/NAP

Start	1792	End	6310
GI	5915832	Score	738
Exons	1792..1853, 3020..3866, 5690..6310		
GI Descrip.	CYTOCHROME P450 76C2 gi|2979549|gb|AAC06158.1| (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121011	Strand	-
Start	6439	End	7545
Name	OJ000320_38.0417.C17.o2.tc	Method	TBLASTX:Cress
Start	3093	End	3446
GI	none	Score	235
Exons	3093..3446, 3104..3235		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121011	Strand	-
Start	6439	End	7545
Name	OJ000320_38.0417.C17.o1.tm	Method	TBLASTX:Maize
Start	5689	End	6222
GI	none	Score	205
Exons	5689..5907, 5702..5923, 5903..6058, 5917..6054, 6083..6220, 6088..6222		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121011	Strand	-
Start	6439	End	7545
Name	OJ000320_38.0417.C17.o1.tw	Method	TBLASTX:Wheat
Start	5689	End	5992
GI	none	Score	186
Exons	5689..5814, 5702..5911, 5851..5919, 5933..5992, 5935..5991		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121011	Strand	-
Start	6439	End	7545
Name	OJ000320_38.0417.C17.o1.ts	Method	TBLASTX:Soybean
Start	5695	End	6217
GI	none	Score	197
Exons	5695..5919, 5702..5911, 5890..6066, 5891..6061, 6074..6217, 6083..6205		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121011	Strand	-
Start	6439	End	7545
Name	OJ000320_38.0417.C17.o1.tc	Method	TBLASTX:Cress
Start	5698	End	6205
GI	none	Score	171
Exons	5698..5943, 5702..5923, 5903..6061, 5917..6045, 6083..6205		

Seq. No.	57865	Seq. ID	OJ000320_38.0417.C17
Gene No.	121011	Strand	-
Start	6439	End	7545
Name	OJ000320_38.0417.C17.o3.np	Method	AAT/NAP
Start	6439	End	7545
GI	3204132	Score	87
Exons	6439..6524, 7053..7545		
GI Descrip.	(AJ006770) extensin [Cicer arietinum]		

Seq. No.	57866	Seq. ID	OJ000320_38.0417.C18
Gene No.	121012	Strand	+
Start	98	End	1177
Name	OJ000320_38.0417.C18.o1.gs	Method	GENSCAN
Start	98	End	1177
GI	none	Score	.76
Exons	98..268, 502..592, 967..1177		

Seq. No.	57866	Seq. ID	OJ000320_38.0417.C18
Gene No.	121013	Strand	-
Start	85	End	1236
Name	OJ000320_38.0417.C18.o1.np	Method	AAT/NAP
Start	85	End	1236
GI	7248394	Score	98
Exons	85..388, 1212..1236		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o1.gp	Method	AAT/GAP
Start	333	End	582
GI	2796679	Score	447
Exons	333..582		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o1.np	Method	AAT/NAP
Start	391	End	4921
GI	4581108	Score	1274
Exons	391..2533, 4845..4921		
GI Descrip.	(AC005825) putative chloroplast outer membrane protein [Arabidopsis thaliana]		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o2.tc	Method	TBLASTX:Cress
Start	404	End	708
GI	none	Score	80
Exons	404..556, 418..708		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o1.ts	Method	TBLASTX:Soybean
Start	415	End	1128
GI	none	Score	230
Exons	415..1128, 428..895, 544..1113, 962..1120		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-

Start	333	End	4925
Name	OJ000320_38.0417.C19.o1.tm	Method	TBLASTX:Maize
Start	445	End	2447
GI	none	Score	74
Exons	445..1131, 446..574, 653..871, 1049..1114, 1135..1185, 1281..1454, 1569..2210, 1588..1728, 1644..2120, 2053..2271, 2262..2447, 2329..2427		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o2.gp	Method	AAT/GAP
Start	1380	End	1903
GI	uC-osflcyp144f09b1	Score	1006
Exons	1380..1903		
GI Descrip.	'4581108/gb|AAD24598.1|AC005825_5 1.0e-24 (AC005825) putative chloroplast outer membrane protein 86,also very similar to GTP-inding protein from pea (GB:L36857) [Arabidopsis thaliana]'		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o2.ts	Method	TBLASTX:Soybean
Start	1566	End	2000
GI	none	Score	112
Exons	1566..2000, 1576..1803, 1644..1979, 1843..1998		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o1.tc	Method	TBLASTX:Cress
Start	1698	End	2522
GI	none	Score	80
Exons	1698..1742, 1722..2300, 2170..2271, 2349..2522, 2368..2427		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o3.ts	Method	TBLASTX:Soybean
Start	2052	End	2447
GI	none	Score	80
Exons	2052..2330, 2143..2265, 2334..2447, 2356..2427		

Seq. No.	57867	Seq. ID	OJ000320_38.0417.C19
Gene No.	121014	Strand	-
Start	333	End	4925
Name	OJ000320_38.0417.C19.o2.np	Method	AAT/NAP
Start	4436	End	4925
GI	7339707	Score	64
Exons	4436..4925		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	57868	Seq. ID	OJ000320_38.0417.C20
Gene No.	121015	Strand	+
Start	49	End	3657
Name	OJ000320_38.0417.C20.o1.gs	Method	GENSCAN
Start	49	End	3657

GI	none	Score	.55
Exons	49..88, 453..612, 2213..2308,	2710..2820,	3413..3657

Seq. No.	57868	Seq. ID	OJ000320_38.0417.C20
Gene No.	121016	Strand	-
Start	1499	End	1966
Name	OJ000320_38.0417.C20.o1.gp	Method	AAT/GAP
Start	1499	End	1966
GI	none	Score	898
Exons	1499..1966		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121017	Strand	+
Start	3189	End	3518
Name	OJ000320_38.0417.C24.o1.gs	Method	GENSCAN
Start	3189	End	3518
GI	none	Score	.83
Exons	3189..3518		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121018	Strand	+
Start	4514	End	10453
Name	OJ000320_38.0417.C24.o2.np	Method	AAT/NAP
Start	4514	End	10453
GI	2160174	Score	1703
Exons	4514..4719, 5977..6022, 7509..7894, 8298..8828, 10037..10453		
GI Descrip.	(AC000132) Identical to A. thaliana PUR2 (gb|X74766). ESTs gb|ATTS3927,gb|N96446 come from this gene. [Arabidopsis thaliana]		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121018	Strand	+
Start	4514	End	10453
Name	OJ000320_38.0417.C24.o3.gs	Method	GENSCAN
Start	6453	End	10450
GI	none	Score	.93
Exons	6453..6630, 6889..7137, 7521..7894, 8298..8828, 10037..10450		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121019	Strand	-
Start	961	End	1108
Name	OJ000320_38.0417.C24.o1.np	Method	AAT/NAP
Start	961	End	1108
GI	6539577	Score	146
Exons	961..1108		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121020	Strand	
Start	7515	End	10462
Name	OJ000320_38.0417.C24.o2.tm	Method	TBLASTX:Maize
Start	7515	End	7740
GI	none	Score	171
Exons	7515..7724, 7517..7738, 7519..7740, 7621..7740		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121020	Strand	

Start	7515	End	10462
Name	OJ000320_38.0417.C24.o1.tc	Method	TBLASTX:Cress
Start	7517	End	10438
GI	none	Score	548
Exons	7517..7894, 7519..7890, 8286..8828, 8288..8830, 8289..8831, 10034..10393, 10036..10395, 10387..10419, 10388..10438		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121020	Strand	
Start	7515	End	10462
Name	OJ000320_38.0417.C24.o1.ts	Method	TBLASTX:Soybean
Start	7586	End	10462
GI	none	Score	421
Exons	7586..7894, 7586..7882, 7588..7890, 8288..8440, 8289..8441, 8441..8566, 8442..8567, 8567..8836, 8568..8831, 10033..10308, 10034..10312, 10259..10369, 10261..10341, 10394..10441, 10403..10462		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121020	Strand	
Start	7515	End	10462
Name	OJ000320_38.0417.C24.o3.tm	Method	TBLASTX:Maize
Start	7756	End	8512
GI	none	Score	133
Exons	7756..7890, 7765..7854, 7766..7894, 8295..8510, 8309..8512		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121020	Strand	
Start	7515	End	10462
Name	OJ000320_38.0417.C24.o1.tm	Method	TBLASTX:Maize
Start	8513	End	10255
GI	none	Score	311
Exons	8513..8728, 8514..8792, 8520..8732, 8724..8831, 8726..8830, 8785..8844, 10033..10254, 10034..10255		

Seq. No.	57869	Seq. ID	OJ000320_38.0417.C24
Gene No.	121020	Strand	
Start	7515	End	10462
Name	OJ000320_38.0417.C24.o4.tm	Method	TBLASTX:Maize
Start	10274	End	10454
GI	none	Score	205
Exons	10274..10438, 10279..10419, 10320..10454, 10326..10439		

Seq. No.	57870	Seq. ID	OJ000320_38.0417.C25
Gene No.	121021	Strand	+
Start	403	End	2397
Name	OJ000320_38.0417.C25.o1.gs	Method	GENSCAN
Start	403	End	2397
GI	none	Score	.77
Exons	403..455, 1126..1693, 2242..2397		

Seq. No.	57870	Seq. ID	OJ000320_38.0417.C25
Gene No.	121022	Strand	-
Start	3940	End	4551
Name	OJ000320_38.0417.C25.o2.gs	Method	GENSCAN
Start	3940	End	4551
GI	none	Score	.59

Exons	3940..4154, 4302..4330, 4436..4551		
Seq. No.	57871	Seq. ID	OJ000320_38.0417.C26
Gene No.	121023	Strand	-
Start	82	End	425
Name	OJ000320_38.0417.C26.o1.gs	Method	GENSCAN
Start	82	End	425
GI	none	Score	.72
Exons	82..263, 342..425		
Seq. No.	57872	Seq. ID	OJ000320_39.0418.C1
Gene No.	121024	Strand	-
Start	8	End	819
Name	OJ000320_39.0418.C1.o1.gs	Method	GENSCAN
Start	8	End	819
GI	none	Score	.53
Exons	8..819		
Seq. No.	57872	Seq. ID	OJ000320_39.0418.C1
Gene No.	121024	Strand	-
Start	8	End	819
Name	OJ000320_39.0418.C1.o1.tm	Method	TBLASTX:Maize
Start	181	End	442
GI	none	Score	134
Exons	181..330, 199..345, 200..346, 204..356, 213..356, 295..441, 353..442, 356..442		
Seq. No.	57873	Seq. ID	OJ000320_39.0418.C2
Gene No.	121025	Strand	-
Start	268	End	935
Name	OJ000320_39.0418.C2.o1.gs	Method	GENSCAN
Start	268	End	935
GI	none	Score	.55
Exons	268..405, 906..935		
Seq. No.	57874	Seq. ID	OJ000320_39.0418.C3
Gene No.	121026	Strand	+
Start	1	End	3730
Name	OJ000320_39.0418.C3.o1.gs	Method	GENSCAN
Start	1	End	1684
GI	none	Score	.73
Exons	1..79, 766..1271, 1349..1684		
Seq. No.	57874	Seq. ID	OJ000320_39.0418.C3
Gene No.	121026	Strand	+
Start	1	End	3730
Name	OJ000320_39.0418.C3.o1.np	Method	AAT/NAP
Start	1	End	812
GI	6016874	Score	60
Exons	1..107, 662..812		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		
Seq. No.	57874	Seq. ID	OJ000320_39.0418.C3
Gene No.	121026	Strand	+
Start	1	End	3730

Name	OJ000320_39.0418.C3.o2.np	Method	AAT/NAP
Start	890	End	3730
GI	7487367	Score	335
Exons	890..1276, 1357..1507, 2333..2401, 2450..2559, 3693..3730		
GI Descrip.	hypothetical protein T23J7.160 - Arabidopsis thaliana gi|4741200|emb|CAB41866.1| (AL049746) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57874	Seq. ID	OJ000320_39.0418.C3
Gene No.	121026	Strand	+
Start	1	End	3730
Name	OJ000320_39.0418.C3.o2.tm	Method	TBLASTX:Maize
Start	1013	End	1525
GI	none	Score	108
Exons	1013..1057, 1014..1082, 1161..1274, 1163..1273, 1322..1525, 1384..1524		

Seq. No.	57874	Seq. ID	OJ000320_39.0418.C3
Gene No.	121026	Strand	+
Start	1	End	3730
Name	OJ000320_39.0418.C3.o1.gp	Method	AAT/GAP
Start	1076	End	1365
GI	uC-osroM202005h10b1	Score	547
Exons	1076..1365		
GI Descrip.	'5123950/emb|CAB45508.1| 1.0e-10 (AL079349) endoxyloglucan transferase-like protein [Arabidopsis thaliana]'		

Seq. No.	57874	Seq. ID	OJ000320_39.0418.C3
Gene No.	121026	Strand	+
Start	1	End	3730
Name	OJ000320_39.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	2298	End	2683
GI	none	Score	90
Exons	2298..2360, 2298..2363, 2300..2362, 2300..2368, 2394..2606, 2401..2679, 2402..2683		

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121027	Strand	+
Start	1068	End	6711
Name	OJ000320_39.0418.C4.o1.gs	Method	GENSCAN
Start	1068	End	6711
GI	none	Score	.4
Exons	1068..1125, 1886..2089, 2234..2334, 2483..2682, 2982..3371, 4286..4565, 4644..4799, 5266..5292, 5475..5594, 5809..5863, 6209..6711		

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121027	Strand	+
Start	1068	End	6711
Name	OJ000320_39.0418.C4.o1.np	Method	AAT/NAP
Start	1882	End	3387
GI	7447414	Score	566
Exons	1882..2089, 2234..2346, 2501..2682, 2982..3387		
GI Descrip.	xyloglucan endo-1,4-beta-D-glucanase homolog F25G13.170 - Arabidopsis thaliana gi|5123949|emb|CAB45507.1| (AL079349) endoxyloglucan transferase-like protein [Arabidopsis thaliana] gi|7268010|emb|CAB78350.1| (AL161535) endoxyloglucan		

transferase-like protein [Arabidopsis thaliana]

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121027	Strand	+
Start	1068	End	6711
Name	OJ000320_39.0418.C4.o1.gp	Method	AAT/GAP
Start	1921	End	2654
GI	4880017	Score	696
Exons	1921..2078, 2242..2334, 2483..2654		
GI Descrip.	5123950/emb|CAB45508.1| 1.0e-10 (AL079349) endoxyloglucan transferase-like protein [Arabidopsis thaliana]		

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121028	Strand	+
Start	8171	End	9595
Name	OJ000320_39.0418.C4.o1.tm	Method	TBLASTX:Maize
Start	2230	End	3153
GI	none	Score	82
Exons	2230..2346, 2513..2683, 2548..2670, 3055..3153, 3057..3146		

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121028	Strand	+
Start	8171	End	9595
Name	OJ000320_39.0418.C4.o1.tc	Method	TBLASTX:Cress
Start	2504	End	2758
GI	none	Score	236
Exons	2504..2758, 2548..2685		

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121028	Strand	+
Start	8171	End	9595
Name	OJ000320_39.0418.C4.o1.ts	Method	TBLASTX:Soybean
Start	2513	End	2725
GI	none	Score	241
Exons	2513..2725, 2542..2688		

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121028	Strand	+
Start	8171	End	9595
Name	OJ000320_39.0418.C4.o2.np	Method	AAT/NAP
Start	8171	End	9595
GI	5070280	Score	277
Exons	8171..8305, 9143..9272, 9533..9595		
GI Descrip.	(AF116849) LIM domain protein WLIM-1 [Helianthus annuus]		

Seq. No.	57875	Seq. ID	OJ000320_39.0418.C4
Gene No.	121028	Strand	+
Start	8171	End	9595
Name	OJ000320_39.0418.C4.o2.tm	Method	TBLASTX:Maize
Start	8185	End	9594
GI	none	Score	206
Exons	8185..8304, 8185..8286, 8186..8305, 8186..8302, 9137..9262, 9141..9242, 9142..9261, 9549..9590, 9550..9594		

Seq. No.	57876	Seq. ID	OJ000320_39.0418.C7
Gene No.	121029	Strand	+
Start	2631	End	3665

Name	OJ000320_39.0418.C7.o2.gs	Method	GENSCAN
Start	2631	End	3665
GI	none	Score	.85
Exons	2631..3182, 3501..3665		

Seq. No.	57876	Seq. ID	OJ000320_39.0418.C7
Gene No.	121030	Strand	-
Start	502	End	4276
Name	OJ000320_39.0418.C7.o1.np	Method	AAT/NAP
Start	407	End	4276
GI	5091543	Score	427
Exons	407..476, 736..888, 990..1064, 1465..1602, 1750..1808, 1927..2138, 4233..4276		
GI Descrip.	(AC007067) T10O24.12 [Arabidopsis thaliana]		

Seq. No.	57876	Seq. ID	OJ000320_39.0418.C7
Gene No.	121030	Strand	-
Start	502	End	4276
Name	OJ000320_39.0418.C7.o1.gs	Method	GENSCAN
Start	502	End	2053
GI	none	Score	.78
Exons	502..681, 805..888, 1465..1602, 1750..1808, 1927..2053		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121031	Strand	+
Start	1	End	2692
Name	OJ000320_39.0418.C8.o1.np	Method	AAT/NAP
Start	1	End	2692
GI	7106508	Score	122
Exons	1..95, 170..509, 559..768, 2020..2075, 2627..2692		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121031	Strand	+
Start	1	End	2692
Name	OJ000320_39.0418.C8.o1.gs	Method	GENSCAN
Start	243	End	473
GI	none	Score	.59
Exons	243..473		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121032	Strand	+
Start	3605	End	3721
Name	OJ000320_39.0418.C8.o1.gp	Method	AAT/GAP
Start	3605	End	3721
GI	969000	Score	175
Exons	3605..3721		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121033	Strand	-
Start	1406	End	2401
Name	OJ000320_39.0418.C8.o2.gs	Method	GENSCAN
Start	1406	End	2389
GI	none	Score	1
Exons	1406..2389		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8

Gene No.	121033	Strand	-
Start	1406	End	2401
Name	OJ000320_39.0418.C8.o2.np	Method	AAT/NAP
Start	1412	End	2401
GI	7433097	Score	867
Exons	1412..2401		
GI Descrip.	probable peroxidase - Arabidopsis thaliana gi|2245128|emb|CAB10549.1| (Z97344) peroxidase like protein [Arabidopsis thaliana] gi|7268522|emb|CAB78772.1| (AL161547) peroxidase like protein [Arabidopsis thaliana]		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121033	Strand	-
Start	1406	End	2401
Name	OJ000320_39.0418.C8.o1.tm	Method	TBLASTX:Maize
Start	1415	End	2243
GI	none	Score	110
Exons	1415..1753, 1416..1559, 1499..1615, 1623..1754, 1775..1999, 1782..1931, 1901..2242, 1958..2173, 1989..2243		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121033	Strand	-
Start	1406	End	2401
Name	OJ000320_39.0418.C8.o1.tc	Method	TBLASTX:Cress
Start	1424	End	2332
GI	none	Score	47
Exons	1424..1666, 1700..1753, 1775..2143, 1989..2141, 2159..2332, 2187..2303		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121033	Strand	-
Start	1406	End	2401
Name	OJ000320_39.0418.C8.o1.ts	Method	TBLASTX:Soybean
Start	1436	End	2332
GI	none	Score	78
Exons	1436..1687, 1706..1753, 1775..2056, 1791..1877, 2105..2332, 2106..2303		

Seq. No.	57877	Seq. ID	OJ000320_39.0418.C8
Gene No.	121033	Strand	-
Start	1406	End	2401
Name	OJ000320_39.0418.C8.o1.tw	Method	TBLASTX:Wheat
Start	1775	End	2326
GI	none	Score	68
Exons	1775..2326, 1791..1913, 1976..2122, 1989..2303		

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9
Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o1.gp	Method	AAT/GAP
Start	1	End	546
GI	LIB3434-010-P1-K1-F1	Score	544
Exons	1..116, 211..360, 438..546		
GI Descrip.	'2829865 4.0e-41 (AC002396)' N-terminal region similar to DNA-J proteins [Arabidopsis thaliana]'		

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9

Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o1.np	Method	AAT/NAP
Start	1	End	3142
GI	4249662	Score	816
Exons	1..116, 212..360, 438..562, 644..717, 1166..1216, 2076..2180, 2267..2378, 2477..2559, 2627..2750, 3015..3142		
GI Descrip.	(AF089810) Altered Response to Gravity [Arabidopsis thaliana] gi|6714354|gb|AAF26045.1|AC015986_8 (AC015986) ARG1 protein (Altered Response to Gravity) [Arabidopsis thaliana]		

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9
Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o1.tc	Method	TBLASTX:Cress
Start	48	End	3151
GI	none	Score	61
Exons	48..119, 61..114, 212..361, 219..362, 427..543, 437..544, 643..720, 653..724, 1166..1225, 2059..2187, 2073..2186, 2076..2189, 2264..2380, 2265..2384, 2477..2524, 2479..2562, 2626..2742, 2627..2752, 2628..2753, 3023..3151		

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9
Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o1.tm	Method	TBLASTX:Maize
Start	48	End	2356
GI	none	Score	91
Exons	48..119, 50..124, 64..117, 66..119, 209..361, 210..362, 219..377, 412..546, 426..548, 427..546, 625..720, 630..719, 632..721, 1166..1225, 2073..2183, 2077..2184, 2264..2356, 2265..2345		

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9
Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o1.gs	Method	GENSCAN
Start	212	End	3166
GI	none	Score	.86
Exons	212..360, 438..546, 631..717, 1166..1216, 2267..2378, 2477..2559, 2627..2750, 3015..3166		

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9
Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o2.ts	Method	TBLASTX:Soybean
Start	433	End	720
GI	none	Score	76
Exons	433..543, 437..544, 640..720, 644..718, 649..720		

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9
Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o1.ts	Method	TBLASTX:Soybean
Start	2264	End	3100
GI	none	Score	105
Exons	2264..2380, 2286..2387, 2482..2562, 2620..2742, 2624..2749,		

2627..2752, 2628..2768, 3006..3092, 3023..3100

Seq. No.	57878	Seq. ID	OJ000320_39.0418.C9
Gene No.	121034	Strand	-
Start	1	End	3166
Name	OJ000320_39.0418.C9.o2.tm	Method	TBLASTX:Maize
Start	2357	End	3158
GI	none	Score	34
Exons	2357..2380, 2361..2381, 2473..2556, 2480..2539, 2481..2555, 2622..2768, 2627..2752, 2629..2754, 3012..3092, 3014..3082, 3023..3118, 3024..3125, 3104..3157, 3105..3158		

Seq. No.	57879	Seq. ID	OJ000320_39.0418.C10
Gene No.	121035	Strand	+
Start	509	End	676
Name	OJ000320_39.0418.C10.o1.gs	Method	GENSCAN
Start	509	End	676
GI	none	Score	.47
Exons	509..676		

Seq. No.	57879	Seq. ID	OJ000320_39.0418.C10
Gene No.	121036	Strand	-
Start	951	End	1156
Name	OJ000320_39.0418.C10.o1.np	Method	AAT/NAP
Start	951	End	1156
GI	6539571	Score	60
Exons	951..1156		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	57880	Seq. ID	OJ000320_39.0418.C13
Gene No.	121037	Strand	+
Start	146	End	1687
Name	OJ000320_39.0418.C13.o1.tm	Method	TBLASTX:Maize
Start	15	End	938
GI	none	Score	64
Exons	15..128, 16..123, 140..220, 156..230, 195..260, 239..295, 333..353, 422..757, 428..667, 467..790, 517..684, 698..865, 708..818, 729..818, 731..778, 737..919, 759..860, 826..882, 843..938		

Seq. No.	57880	Seq. ID	OJ000320_39.0418.C13
Gene No.	121037	Strand	+
Start	146	End	1687
Name	OJ000320_39.0418.C13.o1.gs	Method	GENSCAN
Start	146	End	1680
GI	none	Score	.58
Exons	146..1680		

Seq. No.	57880	Seq. ID	OJ000320_39.0418.C13
Gene No.	121037	Strand	+
Start	146	End	1687
Name	OJ000320_39.0418.C13.o1.gp	Method	AAT/GAP
Start	961	End	1469
GI	uC-osf1cyp032h03b1	Score	932
Exons	961..1469		
GI Descrip.	'283442/pir||A40215 5.0e-09 TcD antigen - Trypanosoma cruzi'		

Seq. No.	57880	Seq. ID	OJ000320_39.0418.C13
Gene No.	121037	Strand	+
Start	146	End	1687
Name	OJ000320_39.0418.C13.o2.tm	Method	TBLASTX:Maize
Start	989	End	1687
GI	none	Score	65
Exons	989..1240, 1073..1300, 1082..1225, 1083..1226, 1083..1202, 1084..1218, 1142..1363, 1142..1360, 1223..1480, 1248..1412, 1253..1426, 1263..1466, 1283..1543, 1287..1541, 1305..1340, 1308..1406, 1343..1603, 1343..1570, 1401..1613, 1403..1636, 1458..1502, 1463..1687, 1467..1643, 1521..1643, 1544..1579		

Seq. No.	57881	Seq. ID	OJ000320_39.0418.C14
Gene No.	121038	Strand	+
Start	536	End	3610
Name	OJ000320_39.0418.C14.o1.gs	Method	GENSCAN
Start	536	End	3103
GI	none	Score	.96
Exons	536..895, 1168..1509, 1952..2045, 2147..2277, 2615..2677, 2767..2946, 3050..3103		

Seq. No.	57881	Seq. ID	OJ000320_39.0418.C14
Gene No.	121038	Strand	+
Start	536	End	3610
Name	OJ000320_39.0418.C14.o1.np	Method	AAT/NAP
Start	543	End	3610
GI	5091544	Score	675
Exons	543..655, 743..904, 1081..1450, 1956..2083, 2147..2277, 2615..2677, 2767..3103, 3551..3610		
GI Descrip.	(AC007067) T10O24.13 [Arabidopsis thaliana]		

Seq. No.	57881	Seq. ID	OJ000320_39.0418.C14
Gene No.	121039	Strand	-
Start	1	End	231
Name	OJ000320_39.0418.C14.o1.gp	Method	AAT/GAP
Start	1	End	231
GI	none	Score	432
Exons	1..231		

Seq. No.	57882	Seq. ID	OJ000320_39.0418.C15
Gene No.	121040	Strand	+
Start	1	End	325
Name	OJ000320_39.0418.C15.o1.np	Method	AAT/NAP
Start	1	End	325
GI	5091544	Score	142
Exons	1..154, 230..325		
GI Descrip.	(AC007067) T10O24.13 [Arabidopsis thaliana]		

Seq. No.	57882	Seq. ID	OJ000320_39.0418.C15
Gene No.	121041	Strand	-
Start	1182	End	3064
Name	OJ000320_39.0418.C15.o1.gs	Method	GENSCAN
Start	1182	End	3064
GI	none	Score	.54
Exons	1182..1408, 2548..2715, 2830..3064		

Seq. No.	57882	Seq. ID	OJ000320_39.0418.C15

Gene No.	121041	Strand	-
Start	1182	End	3064
Name	OJ000320_39.0418.C15.o2.np	Method	AAT/NAP
Start	1224	End	2896
GI	732311	Score	158
Exons	1224..1405, 2548..2715, 2830..2896		
GI Descrip.	HYPOTHETICAL 15.7 KD PROTEIN IN PBPD-COMA INTERGENIC REGION (ORF2) gi|1075880|pir||B55220 pbpD 3'-region hypothetical protein - Bacillus subtilis gi|520537 (U11882) unknown [Bacillus subtilis] gi|1934785|emb|CAB07916| (Z93933) unknown [Bacillus subtilis] gi|2635646|emb|CAB15139| (Z99120) alternate gene name: yugD [Bacillus subtilis]		

Seq. No.	57882	Seq. ID	OJ000320_39.0418.C15
Gene No.	121041	Strand	-
Start	1182	End	3064
Name	OJ000320_39.0418.C15.o1.ts	Method	TBLASTX:Soybean
Start	2549	End	2884
GI	none	Score	135
Exons	2549..2728, 2550..2726, 2655..2747, 2826..2876, 2828..2884		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121042	Strand	+
Start	122	End	2222
Name	OJ000320_39.0418.C16.o1.np	Method	AAT/NAP
Start	122	End	2103
GI	5911312	Score	551
Exons	122..427, 584..730, 880..978, 1141..1239, 1450..1548, 1639..1737, 2005..2103		
GI Descrip.	(AF026167) ankyrin repeat protein EMB506 [Arabidopsis thaliana]		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121042	Strand	+
Start	122	End	2222
Name	OJ000320_39.0418.C16.o1.gs	Method	GENSCAN
Start	128	End	2063
GI	none	Score	.86
Exons	128..524, 651..730, 880..978, 1639..1737, 1833..2063		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121042	Strand	+
Start	122	End	2222
Name	OJ000320_39.0418.C16.o1.gp	Method	AAT/GAP
Start	1209	End	2222
GI	LIB3431-047-P1-N1-D8	Score	805
Exons	1209..1239, 1450..1548, 1639..1737, 2005..2222		
GI Descrip.	'5911312/gb|AAD55746.1|AF026167_1 1.0e-46 (AF026167) ankyrin repeat protein EMB506 [Arabidopsis thaliana]'		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121043	Strand	+
Start	2818	End	3248
Name	OJ000320_39.0418.C16.o2.gp	Method	AAT/GAP
Start	2818	End	3248
GI	39248_1.R1084	Score	819
Exons	2818..3248		
GI Descrip.	'4512325/dbj|BAA75230.1| 2.0e-20 (AB023619) methyltransferase		

related protein [Mus musculus]'

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121044	Strand	-
Start	2977	End	4386
Name	OJ000320_39.0418.C16.o2.np	Method	AAT/NAP
Start	2945	End	4118
GI	4160294	Score	657
Exons	2945..3435, 3834..4118		
GI Descrip.	(Y18644) methyltransferase-like protein 1 [Mus musculus]		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121044	Strand	-
Start	2977	End	4386
Name	OJ000320_39.0418.C16.o2.gs	Method	GENSCAN
Start	2977	End	4154
GI	none	Score	.8
Exons	2977..3435, 3834..4154		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121044	Strand	-
Start	2977	End	4386
Name	OJ000320_39.0418.C16.o3.gp	Method	AAT/GAP
Start	3899	End	4386
GI	uC-osflcyp174b05b1	Score	976
Exons	3899..4386		
GI Descrip.	'2131358/pir||S67760 2.0e-11 hypothetical protein YDL201w - yeast (Saccharomyces cerevisiae) >gi_1429356_emb_CAA67468_ (X99000) ORF D1075 [Saccharomyces cerevisiae] >gi_1431332_emb_CAA98779_ (Z74249) ORF YDL201w [Saccharomyces cerevisiae]'		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121045	Strand	-
Start	8290	End	9915
Name	OJ000320_39.0418.C16.o2.tc	Method	TBLASTX:Cress
Start	1447	End	2091
GI	none	Score	141
Exons	1447..1548, 1449..1508, 1468..1551, 1636..1737, 1638..1739, 1639..1737, 1644..1739, 2002..2091, 2004..2090		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121045	Strand	-
Start	8290	End	9915
Name	OJ000320_39.0418.C16.o1.tm	Method	TBLASTX:Maize
Start	2967	End	3899
GI	none	Score	96
Exons	2967..3080, 2967..3209, 2980..3438, 2981..3433, 2989..3438, 3822..3899, 3831..3884		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121045	Strand	-
Start	8290	End	9915
Name	OJ000320_39.0418.C16.o1.tc	Method	TBLASTX:Cress
Start	2987	End	3274
GI	none	Score	259
Exons	2987..3079, 2989..3273, 2993..3274		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121045	Strand	-
Start	8290	End	9915
Name	OJ000320_39.0418.C16.o1.ts	Method	TBLASTX:Soybean
Start	3307	End	4103
GI	none	Score	89
Exons	3307..3411, 3317..3412, 3412..3438, 3831..3938, 3832..3888, 3979..4101, 3981..4103		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121045	Strand	-
Start	8290	End	9915
Name	OJ000320_39.0418.C16.o3.tc	Method	TBLASTX:Cress
Start	3337	End	4103
GI	none	Score	68
Exons	3337..3399, 3388..3438, 3831..3944, 3832..3888, 3987..4103, 4006..4101		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121045	Strand	-
Start	8290	End	9915
Name	OJ000320_39.0418.C16.o2.tm	Method	TBLASTX:Maize
Start	3900	End	4106
GI	none	Score	248
Exons	3900..4106, 3901..4101		

Seq. No.	57883	Seq. ID	OJ000320_39.0418.C16
Gene No.	121045	Strand	-
Start	8290	End	9915
Name	OJ000320_39.0418.C16.o3.gs	Method	GENSCAN
Start	8290	End	9915
GI	none	Score	.81
Exons	8290..8736, 8813..8956, 8968..9060, 9889..9915		

Seq. No.	57884	Seq. ID	OJ000320_39.0418.C17
Gene No.	121046	Strand	+
Start	6251	End	6923
Name	OJ000320_39.0418.C17.o2.gs	Method	GENSCAN
Start	6251	End	6923
GI	none	Score	.95
Exons	6251..6652, 6750..6923		

Seq. No.	57884	Seq. ID	OJ000320_39.0418.C17
Gene No.	121046	Strand	+
Start	6251	End	6923
Name	OJ000320_39.0418.C17.o1.np	Method	AAT/NAP
Start	6410	End	6900
GI	6448480	Score	77
Exons	6410..6652, 6750..6900		
GI Descrip.	(AJ250396) cyclin D1 [Antirrhinum majus]		

Seq. No.	57885	Seq. ID	OJ000320_39.0418.C18
Gene No.	121047	Strand	+
Start	217	End	1651
Name	OJ000320_39.0418.C18.o2.np	Method	AAT/NAP
Start	217	End	1651

GI	6448480	Score	225
Exons	217..350, 434..635, 1608..1651		
GI Descrip.	(AJ250396) cyclin D1 [Antirrhinum majus]		

Seq. No.	57885	Seq. ID	OJ000320_39.0418.C18
Gene No.	121047	Strand	+
Start	217	End	1651
Name	OJ000320_39.0418.C18.o1.gs	Method	GENSCAN
Start	410	End	1134
GI	none	Score	.49
Exons	410..557, 965..1134		

Seq. No.	57885	Seq. ID	OJ000320_39.0418.C18
Gene No.	121048	Strand	-
Start	1	End	1091
Name	OJ000320_39.0418.C18.o1.np	Method	AAT/NAP
Start	1	End	1091
GI	7440172	Score	59
Exons	1..154, 1021..1091		
GI Descrip.	ribosomal protein S4 - rice mitochondrion gi|3025870|gb|AAC26506.1| (AF055706) ribosomal protein S4 [Oryza sativa]		

Seq. No.	57885	Seq. ID	OJ000320_39.0418.C18
Gene No.	121048	Strand	-
Start	1	End	1091
Name	OJ000320_39.0418.C18.o1.ts	Method	TBLASTX:Soybean
Start	252	End	631
GI	none	Score	114
Exons	252..353, 259..354, 260..349, 433..606	264..353, 430..528, 431..631,	

Seq. No.	57885	Seq. ID	OJ000320_39.0418.C18
Gene No.	121048	Strand	-
Start	1	End	1091
Name	OJ000320_39.0418.C18.o1.tc	Method	TBLASTX:Cress
Start	260	End	631
GI	none	Score	107
Exons	260..352, 261..362, 431..631,	436..579	

Seq. No.	57885	Seq. ID	OJ000320_39.0418.C18
Gene No.	121048	Strand	-
Start	1	End	1091
Name	OJ000320_39.0418.C18.o1.tm	Method	TBLASTX:Maize
Start	448	End	667
GI	none	Score	214
Exons	448..630, 455..667, 455..634		

Seq. No.	57886	Seq. ID	OJ000320_39.0418.C19
Gene No.	121049	Strand	-
Start	974	End	1573
Name	OJ000320_39.0418.C19.o1.np	Method	AAT/NAP
Start	974	End	1573
GI	6069646	Score	277
Exons	974..1573		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to		

Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	57886	Seq. ID	OJ000320_39.0418.C19
Gene No.	121049	Strand	-
Start	974	End	1573
Name	OJ000320_39.0418.C19.o1.tw	Method	TBLASTX:Wheat
Start	1101	End	1448
GI	none	Score	171
Exons	1101..1148, 1260..1448		

Seq. No.	57886	Seq. ID	OJ000320_39.0418.C19
Gene No.	121049	Strand	-
Start	974	End	1573
Name	OJ000320_39.0418.C19.o1.tm	Method	TBLASTX:Maize
Start	1182	End	1461
GI	none	Score	119
Exons	1182..1457, 1264..1461		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121050	Strand	+
Start	2074	End	3626
Name	OJ000320_39.0418.C21.o1.gs	Method	GENSCAN
Start	2074	End	3626
GI	none	Score	92
Exons	2074..3096, 3123..3626		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121050	Strand	+
Start	2074	End	3626
Name	OJ000320_39.0418.C21.o1.np	Method	AAT/NAP
Start	2137	End	3597
GI	7487366	Score	544
Exons	2137..3146, 3181..3597		
GI Descrip.	hypothetical protein T23J7.150 - Arabidopsis thaliana gi|4741199|emb|CAB41865.1| (AL049746) putative protein [Arabidopsis thaliana]		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121051	Strand	+
Start	6969	End	8444
Name	OJ000320_39.0418.C21.o3.gs	Method	GENSCAN
Start	6969	End	8444
GI	none	Score	.81
Exons	6969..7879, 7976..8444		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121051	Strand	+
Start	6969	End	8444
Name	OJ000320_39.0418.C21.o2.np	Method	AAT/NAP
Start	6972	End	8362
GI	7487366	Score	415
Exons	6972..8362		
GI Descrip.	hypothetical protein T23J7.150 - Arabidopsis thaliana gi|4741199|emb|CAB41865.1| (AL049746) putative protein [Arabidopsis thaliana]		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o2.ts	Method	TBLASTX:Soybean
Start	2644	End	7769
GI	none	Score	52
Exons	2644..2712, 2703..2978, 2818..2979, 7488..7769		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o3.tm	Method	TBLASTX:Maize
Start	3186	End	8306
GI	none	Score	61
Exons	3186..3269, 3281..3430, 3309..3422, 3402..3476, 3513..3557, 8043..8111, 8067..8165, 8181..8306		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o1.gp	Method	AAT/GAP
Start	8792	End	11698
GI	4671_1.R1084	Score	1405
Exons	8792..8953, 9048..9165, 9256..9334, 10192..10392, 10490..10525, 11462..11698		
GI Descrip.	'4544428/gb|AAD22337.1|AC006955_23 7.0e-33 (AC006955) unknown protein [Arabidopsis thaliana]'		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o2.tm	Method	TBLASTX:Maize
Start	9053	End	9339
GI	none	Score	164
Exons	9053..9163, 9054..9164, 9056..9163, 9057..9164, 9218..9334, 9256..9339, 9257..9334		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o1.tc	Method	TBLASTX:Cress
Start	9083	End	10531
GI	none	Score	64
Exons	9083..9160, 9098..9169, 9260..9325, 10189..10236, 10190..10240, 10251..10397, 10330..10389, 10475..10531		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o1.ts	Method	TBLASTX:Soybean
Start	9092	End	10531
GI	none	Score	81
Exons	9092..9163, 9095..9169, 9257..9337, 10186..10287, 10190..10285, 10239..10397, 10290..10391, 10487..10531, 10489..10527		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21

Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o3.np	Method	AAT/NAP
Start	9251	End	11971
GI	4544428	Score	329
Exons	9251..9334, 10192..10392, 10490..10525, 11462..11534, 11869..11971		
GI Descrip.	(AC006955) unknown protein [Arabidopsis thaliana]		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o1.tm	Method	TBLASTX:Maize
Start	10145	End	10531
GI	none	Score	48
Exons	10145..10183, 10146..10181, 10189..10278, 10189..10278, 10190..10279, 10223..10456, 10242..10451, 10247..10486, 10442..10528, 10460..10531		

Seq. No.	57887	Seq. ID	OJ000320_39.0418.C21
Gene No.	121052	Strand	-
Start	8792	End	12492
Name	OJ000320_39.0418.C21.o4.gs	Method	GENSCAN
Start	11121	End	12492
GI	none	Score	.57
Exons	11121..11208, 11498..11833, 12395..12492		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o1.np	Method	AAT/NAP
Start	87	End	1509
GI	7487959	Score	834
Exons	87..335, 492..554, 649..784, 875..1509		
GI Descrip.	MSP1 protein homolog T13J8.110 - Arabidopsis thaliana gi|4455359|emb|CAB36769.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269654|emb|CAB79602.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o1.gp	Method	AAT/GAP
Start	262	End	953
GI	15790_1.R1084	Score	668
Exons	262..362, 492..554, 649..784, 875..953		
GI Descrip.	'4455359/emb|CAB36769.1| 9.0e-42 (AL035524) putative protein [Arabidopsis thaliana]'		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o1.gs	Method	GENSCAN
Start	278	End	1440
GI	none	Score	.98
Exons	278..362, 492..554, 649..784, 875..1199, 1281..1440		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	477	End	1443
GI	none	Score	68
Exons	477..560, 649..711, 649..732, 653..715, 709..786, 710..787, 873..1061, 874..1443, 874..1182, 1249..1437, 1251..1442		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o2.tc	Method	TBLASTX:Cress
Start	477	End	936
GI	none	Score	110
Exons	477..560, 649..786, 653..793, 874..936		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	492	End	1441
GI	none	Score	252
Exons	492..560, 649..750, 874..1182, 875..1180, 883..1284, 1249..1290, 1270..1440, 1285..1371, 1346..1441		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	492	End	1066
GI	none	Score	56
Exons	492..560, 649..732, 650..706, 874..1065, 875..1066		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	895	End	1441
GI	none	Score	187
Exons	895..924, 937..1182, 938..1180, 1270..1440, 1285..1392, 1352..1441		

Seq. No.	57888	Seq. ID	OJ000250_33.0419.C1
Gene No.	121053	Strand	-
Start	87	End	1509
Name	OJ000250_33.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	1102	End	1441
GI	none	Score	66
Exons	1102..1182, 1112..1183, 1249..1290, 1270..1440, 1285..1398, 1346..1441		

Seq. No.	57889	Seq. ID	OJ000250_33.0419.C2
Gene No.	121054	Strand	+
Start	3440	End	8250
Name	OJ000250_33.0419.C2.o2.np	Method	AAT/NAP
Start	3440	End	8250

GI	5734621	Score	134
Exons	3440..3495, 5509..5713, 8188..8250		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	57889	Seq. ID	OJ000250_33.0419.C2
Gene No.	121055	Strand	+
Start	10444	End	11749
Name	OJ000250_33.0419.C2.o3.np	Method	AAT/NAP
Start	10444	End	11749
GI	6815099	Score	83
Exons	10444..10583, 11632..11749		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	57889	Seq. ID	OJ000250_33.0419.C2
Gene No.	121056	Strand	-
Start	1	End	4358
Name	OJ000250_33.0419.C2.o1.gp	Method	AAT/GAP
Start	1	End	749
GI	4714811	Score	1128
Exons	1..64, 142..641, 719..749		
GI Descrip.	4455359/emb|CAB36769.1| 5.0e-29 (AL035524) putative protein [Arabidopsis thaliana]		

Seq. No.	57889	Seq. ID	OJ000250_33.0419.C2
Gene No.	121056	Strand	-
Start	1	End	4358
Name	OJ000250_33.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	2811
GI	7487959	Score	564
Exons	1..64, 142..641, 719..756, 2008..2341, 2609..2811		
GI Descrip.	MSP1 protein homolog T13J8.110 - Arabidopsis thaliana gi|4455359|emb|CAB36769.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269654|emb|CAB79602.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	57889	Seq. ID	OJ000250_33.0419.C2
Gene No.	121056	Strand	-
Start	1	End	4358
Name	OJ000250_33.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	10	End	446
GI	none	Score	46
Exons	10..69, 38..67, 135..260, 150..233, 261..446		

Seq. No.	57889	Seq. ID	OJ000250_33.0419.C2
Gene No.	121056	Strand	-
Start	1	End	4358
Name	OJ000250_33.0419.C2.o1.gs	Method	GENSCAN
Start	142	End	4358
GI	none	Score	.77
Exons	142..641, 1016..1110, 1388..1487, 1907..1942, 2034..2122, 2220..2341, 2609..2868, 4265..4324, 4356..4358		

Seq. No.	57889	Seq. ID	OJ000250_33.0419.C2
Gene No.	121056	Strand	-
Start	1	End	4358

Name	OJ000250_33.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	327	End	761
GI	none	Score	136
Exons	327..650, 352..639, 501..644, 714..761, 716..760		

Seq. No.	57890	Seq. ID	OJ000250_33.0419.C3
Gene No.	121057	Strand	+
Start	311	End	501
Name	OJ000250_33.0419.C3.o1.gs	Method	GENSCAN
Start	311	End	501
GI	none	Score	.44
Exons	311..501		

Seq. No.	57890	Seq. ID	OJ000250_33.0419.C3
Gene No.	121058	Strand	-
Start	1218	End	1312
Name	OJ000250_33.0419.C3.o1.gp	Method	AAT/GAP
Start	1218	End	1312
GI	LIB3477-003-P1-K1-E9	Score	84
Exons	1218..1312		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	57891	Seq. ID	OJ000250_33.0419.C5
Gene No.	121059	Strand	-
Start	71	End	215
Name	OJ000250_33.0419.C5.o1.gs	Method	GENSCAN
Start	71	End	215
GI	none	Score	.71
Exons	71..215		

Seq. No.	57892	Seq. ID	OJ000250_33.0419.C9
Gene No.	121060	Strand	+
Start	1416	End	1548
Name	OJ000250_33.0419.C9.o1.gp	Method	AAT/GAP
Start	1416	End	1548
GI	LIB3474-009-P1-K1-F11	Score	221
Exons	1416..1548		
GI Descrip.	'4455244/emb|CAB36743.1| 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	57893	Seq. ID	OJ000250_33.0419.C10
Gene No.	121061	Strand	+
Start	1310	End	1506
Name	OJ000250_33.0419.C10.o1.gs	Method	GENSCAN
Start	1310	End	1506
GI	none	Score	.42
Exons	1310..1506		

Seq. No.	57893	Seq. ID	OJ000250_33.0419.C10
Gene No.	121062	Strand	-
Start	3369	End	3752
Name	OJ000250_33.0419.C10.o3.gs	Method	GENSCAN
Start	3369	End	3752
GI	none	Score	.52
Exons	3369..3510, 3558..3752		

Seq. No.	57894	Seq. ID	OJ000250_33.0419.C11
Gene No.	121063	Strand	+
Start	2386	End	2676
Name	OJ000250_33.0419.C11.o2.gs	Method	GENSCAN
Start	2386	End	2676
GI	none	Score	1
Exons	2386..2676		

Seq. No.	57894	Seq. ID	OJ000250_33.0419.C11
Gene No.	121064	Strand	-
Start	1	End	1825
Name	OJ000250_33.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1821
GI	2505884	Score	1329
Exons	1..1821		
GI Descrip.	(Y12776) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57894	Seq. ID	OJ000250_33.0419.C11
Gene No.	121064	Strand	-
Start	1	End	1825
Name	OJ000250_33.0419.C11.o1.gs	Method	GENSCAN
Start	14	End	1821
GI	none	Score	.6
Exons	14..1821		

Seq. No.	57894	Seq. ID	OJ000250_33.0419.C11
Gene No.	121064	Strand	-
Start	1	End	1825
Name	OJ000250_33.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1552	End	1825
GI	none	Score	108
Exons	1552..1824, 1730..1825		

Seq. No.	57895	Seq. ID	OJ000250_33.0419.C13
Gene No.	121065	Strand	-
Start	41	End	148
Name	OJ000250_33.0419.C13.o1.gs	Method	GENSCAN
Start	41	End	148
GI	none	Score	.71
Exons	41..148		

Seq. No.	57896	Seq. ID	OJ000250_33.0419.C25
Gene No.	121066	Strand	+
Start	457	End	648
Name	OJ000250_33.0419.C25.o1.gp	Method	AAT/GAP
Start	457	End	648
GI	none	Score	331
Exons	457..648		

Seq. No.	57896	Seq. ID	OJ000250_33.0419.C25
Gene No.	121067	Strand	-
Start	340	End	629
Name	OJ000250_33.0419.C25.o1.gs	Method	GENSCAN
Start	340	End	629
GI	none	Score	.42
Exons	340..629		

Seq. No.	57897	Seq. ID	OJ000250_33.0419.C26
Gene No.	121068	Strand	+
Start	102	End	657
Name	OJ000250_33.0419.C26.o1.gs	Method	GENSCAN
Start	102	End	657
GI	none	Score	.47
Exons	102..140, 567..657		

Seq. No.	57897	Seq. ID	OJ000250_33.0419.C26
Gene No.	121069	Strand	+
Start	1512	End	1828
Name	OJ000250_33.0419.C26.o2.gs	Method	GENSCAN
Start	1512	End	1828
GI	none	Score	.47
Exons	1512..1828		

Seq. No.	57898	Seq. ID	OJ000250_33.0419.C27
Gene No.	121070	Strand	+
Start	389	End	1482
Name	OJ000250_33.0419.C27.o1.gs	Method	GENSCAN
Start	389	End	1482
GI	none	Score	.43
Exons	389..707, 1085..1143, 1352..1482		

Seq. No.	57898	Seq. ID	OJ000250_33.0419.C27
Gene No.	121071	Strand	-
Start	2647	End	4362
Name	OJ000250_33.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	374	End	654
GI	none	Score	89
Exons	374..535, 387..536, 387..623, 388..654, 388..630		

Seq. No.	57898	Seq. ID	OJ000250_33.0419.C27
Gene No.	121071	Strand	-
Start	2647	End	4362
Name	OJ000250_33.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	378	End	1145
GI	none	Score	262
Exons	378..632, 381..707, 388..711, 388..708, 1083..1145		

Seq. No.	57898	Seq. ID	OJ000250_33.0419.C27
Gene No.	121071	Strand	-
Start	2647	End	4362
Name	OJ000250_33.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	387	End	711
GI	none	Score	376
Exons	387..506, 388..711, 400..705		

Seq. No.	57898	Seq. ID	OJ000250_33.0419.C27
Gene No.	121071	Strand	-
Start	2647	End	4362
Name	OJ000250_33.0419.C27.o2.gs	Method	GENSCAN
Start	2647	End	4362
GI	none	Score	.62
Exons	2647..2788, 3176..3247, 4187..4362		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121072	Strand	+
Start	767	End	3107
Name	OJ000250_33.0419.C30.o1.gp	Method	AAT/GAP
Start	767	End	3107
GI	1631793	Score	774
Exons	767..832, 1987..2063, 2842..3107		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121073	Strand	+
Start	3117	End	5045
Name	OJ000250_33.0419.C30.o1.np	Method	AAT/NAP
Start	3117	End	5045
GI	6692098	Score	1442
Exons	3117..5045		
GI Descrip.	(AC007764) F22C12.10 [Arabidopsis thaliana]		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121073	Strand	+
Start	3117	End	5045
Name	OJ000250_33.0419.C30.o2.gp	Method	AAT/GAP
Start	3365	End	3886
GI	none	Score	1040
Exons	3365..3886		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121073	Strand	+
Start	3117	End	5045
Name	OJ000250_33.0419.C30.o3.gp	Method	AAT/GAP
Start	4343	End	4749
GI	58105_1.R1084	Score	791
Exons	4343..4749		
GI Descrip.	'4586107/emb|CAB40943.1| 6.0e-34 (AL049638) putative disease resistance protein [Arabidopsis thaliana]'		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121074	Strand	-
Start	4745	End	5433
Name	OJ000250_33.0419.C30.o4.gp	Method	AAT/GAP
Start	4745	End	5433
GI	none	Score	1255
Exons	4745..5433		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o3.tm	Method	TBLASTX:Maize
Start	2961	End	3514
GI	none	Score	59
Exons	2961..3011, 2965..3000, 2970..3017, 3032..3223, 3033..3071, 3040..3189, 3108..3224, 3235..3312, 3239..3313, 3239..3310, 3240..3314, 3304..3441, 3304..3513, 3314..3514, 3314..3514		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o1.tm	Method	TBLASTX:Maize

Start	3836	End	4789
GI	none	Score	902
Exons	3836..4234, 3837..4442, 3897..4370, 3914..4234, 3914..4204, 3914..4069, 4053..4448, 4261..4416, 4267..4434, 4271..4405, 4274..4405, 4274..4387, 4286..4405, 4286..4366, 4446..4664, 4452..4604, 4452..4670, 4452..4667, 4452..4667, 4452..4667, 4505..4660, 4505..4654, 4505..4657, 4506..4664, 4508..4663, 4523..4666, 4523..4663, 4581..4673, 4704..4754, 4704..4754, 4710..4754, 4778..4789		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	3879	End	4691
GI	none	Score	1266
Exons	3879..4691, 3885..4073, 3905..4234, 3908..4105, 3977..4108, 4245..4292, 4280..4405, 4289..4405, 4292..4405, 4472..4621, 4505..4669, 4508..4660, 4508..4654, 4511..4654		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	3896	End	4847
GI	none	Score	572
Exons	3896..4087, 3897..4367, 3897..4061, 3903..4088, 3908..4090, 3911..4054, 3911..3991, 3911..4045, 3914..4195, 3918..4697, 3918..4676, 4143..4193, 4505..4693, 4710..4847, 4718..4792		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o2.np	Method	AAT/NAP
Start	5558	End	7590
GI	7267618	Score	497
Exons	5558..5598, 5922..6330, 6558..6636, 7526..7590		
GI Descrip.	(AL161491) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o2.tm	Method	TBLASTX:Maize
Start	5819	End	6199
GI	none	Score	56
Exons	5819..5875, 5820..5876, 5882..5974, 5884..5961, 5933..6106, 6058..6198, 6073..6198, 6152..6199		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o2.gs	Method	GENSCAN
Start	5887	End	6635
GI	none	Score	.82
Exons	5887..6330, 6558..6635		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30

Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o2.ts	Method	TBLASTX:Soybean
Start	6050	End	6660
GI	5752490	Score	218
Exons	6050..6331, 6058..6336, 6558..6656, 6564..6638, 6565..6660		
GI Descrip.	2191144 4.0e-33 (AF007269) A_IG002N01.24 gene product [Arabidopsis thaliana]		

Seq. No.	57899	Seq. ID	OJ000250_33.0419.C30
Gene No.	121075	Strand	-
Start	5887	End	7590
Name	OJ000250_33.0419.C30.o5.gp	Method	AAT/GAP
Start	6116	End	6736
GI	LIB3433-029-P1-K1-B1	Score	741
Exons	6116..6330, 6558..6736		
GI Descrip.	'231982/sp|P16891|DCUP_SYNP7 2.0e-37 UROPORPHYRINOGEN DECARBOXYLASE (UPD) >gi_1075614_pir__A56609 uroporphyrinogen decarboxylase homolog - Synechococcus sp. (PCC 7942) >gi_48040_emb_CAA77766_ (Z11705) putative uroporphyrinogen decarboxylase [Synechococcus sp.]'		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	4388
GI	7267618	Score	1491
Exons	1..275, 465..653, 1180..1389, 1491..1979, 2090..2290, 2396..2586, 2625..2712, 2802..2973, 3080..3130, 3270..3379, 3838..3924, 4094..4388		
GI Descrip.	(AL161491) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	102	End	1392
GI	none	Score	206
Exons	102..278, 102..278, 461..661, 465..653, 1174..1392, 1180..1392		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o2.ts	Method	TBLASTX:Soybean
Start	109	End	278
GI	none	Score	102
Exons	109..216, 109..276, 111..278		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o1.gs	Method	GENSCAN
Start	112	End	4260
GI	none	Score	.84
Exons	112..275, 465..653, 1180..1437, 1491..1979, 2611..2712, 2802..2973, 3080..3130, 3270..3379, 3838..3924, 4039..4260		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	590	End	1392
GI	none	Score	80
Exons	590..661, 590..646, 591..653,	1165..1392, 1180..1392	

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o3.tm	Method	TBLASTX:Maize
Start	1536	End	1784
GI	none	Score	153
Exons	1536..1784, 1559..1771, 1561..1782		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o3.ts	Method	TBLASTX:Soybean
Start	1693	End	1921
GI	none	Score	134
Exons	1693..1917, 1695..1916, 1763..1921		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o2.tm	Method	TBLASTX:Maize
Start	1803	End	2177
GI	none	Score	167
Exons	1803..2003, 1805..1975, 1810..1980, 2087..2176, 2094..2177		

Seq. No.	57900	Seq. ID	OJ000250_33.0419.C31
Gene No.	121076	Strand	-
Start	1	End	4388
Name	OJ000250_33.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	2548	End	3127
GI	none	Score	38
Exons	2548..2580, 2549..2581, 2654..2701, 2659..2721, 2799..2957, 2803..2958, 3082..3126, 3086..3127		

Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121077	Strand	+
Start	196	End	2164
Name	OJ000250_33.0419.C32.o1.gs	Method	GENSCAN
Start	196	End	2164
GI	none	Score	.72
Exons	196..332, 608..774, 1981..2164		

Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121077	Strand	+
Start	196	End	2164
Name	OJ000250_33.0419.C32.o1.np	Method	AAT/NAP
Start	219	End	2049
GI	7340860	Score	73
Exons	219..385, 525..697, 2010..2049		

GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o3.tm	Method	TBLASTX:Maize
Start	3296	End	4567
GI	none	Score	192
Exons	3296..3496, 3298..3495, 3303..3503, 3324..3497, 4408..4566, 4418..4567		
Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o2.gs	Method	GENSCAN
Start	3327	End	7135
GI	none	Score	.84
Exons	3327..3495, 3995..4090, 4424..4659, 5223..5507, 6518..6906, 7006..7135		
Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o2.tc	Method	TBLASTX:Cress
Start	3354	End	5460
GI	none	Score	107
Exons	3354..3494, 3354..3497, 3355..3498, 3364..3498, 4414..4677, 4418..4636, 4429..4677, 5214..5459, 5223..5459, 5230..5460, 5230..5460		
Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o2.np	Method	AAT/NAP
Start	3378	End	7165
GI	6014937	Score	884
Exons	3378..3495, 4424..4659, 5223..5507, 6518..6904, 7010..7165		
GI Descrip.	UROPORPHYRINOGEN DECARBOXYLASE PRECURSOR (UPD) gi|2651307|gb|AAB87587.1| (AC002336) putative uroporphyrinogen decarboxylase [Arabidopsis thaliana]		
Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	4427	End	6917
GI	none	Score	262
Exons	4427..4660, 4429..4662, 4474..4662, 5220..5348, 5223..5345, 5227..5349, 5428..5502, 5433..5507, 5436..5510, 6515..6871, 6516..6917, 6872..6904		
Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	4568	End	6680

GI	none	Score	115
Exons	4568..4660, 4568..4675, 4569..4676, 4570..4677, 4570..4677, 5220..5507, 5223..5510, 5227..5508, 6515..6679, 6519..6680		

Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o1.gp	Method	AAT/GAP
Start	5265	End	7184
GI	3548927	Score	1384
Exons	5265..5507, 6518..6906, 7006..7184		
GI Descrip.	231982/sp|P16891|DCUP_SYNP7 2.0e-37 UROPORPHYRINOGEN DECARBOXYLASE (UPD) >gi_1075614_pir__A56609 uroporphyrinogen decarboxylase homolog - Synechococcus sp. (PCC 7942) >gi_48040_emb_CAA77766_ (Z11705) putative uroporphyrinogen decarboxylase [Synechococcus sp.]		

Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	6596	End	6865
GI	none	Score	237
Exons	6596..6865, 6597..6860		

Seq. No.	57901	Seq. ID	OJ000250_33.0419.C32
Gene No.	121078	Strand	-
Start	3327	End	7306
Name	OJ000250_33.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	6719	End	7306
GI	none	Score	303
Exons	6719..6907, 6720..6908, 6855..6938, 7224..7253, 7259..7306		

Seq. No.	57902	Seq. ID	OJ000250_33.0419.C37
Gene No.	121079	Strand	-
Start	1	End	1170
Name	OJ000250_33.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	1170
GI	6907086	Score	1160
Exons	1..356, 414..1170		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	57902	Seq. ID	OJ000250_33.0419.C37
Gene No.	121080	Strand	-
Start	1868	End	3919
Name	OJ000250_33.0419.C37.o2.np	Method	AAT/NAP
Start	1868	End	3919
GI	4680186	Score	180
Exons	1868..2287, 2787..2890, 3877..3919		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	57903	Seq. ID	OJ000250_33.0419.C38
Gene No.	121081	Strand	+
Start	89	End	280
Name	OJ000250_33.0419.C38.o1.gs	Method	GENSCAN
Start	89	End	280
GI	none	Score	.73

Exons	89..164, 246..280		
Seq. No.	57903	Seq. ID	OJ000250_33.0419.C38
Gene No.	121082	Strand	+
Start	571	End	1014
Name	OJ000250_33.0419.C38.o1.gp	Method	AAT/GAP
Start	571	End	1014
GI	uC-osflcyp123f01b1	Score	793
Exons	571..1014		
GI Descrip.	'231982/sp|P16891|DCUP_SYNP7 2.0e-37 UROPORPHYRINOGEN DECARBOXYLASE (UPD) >gi_1075614_pir__A56609 uroporphyrinogen decarboxylase homolog - Synechococcus sp. (PCC 7942) >gi_48040_emb_CAA77766_ (Z11705) putative uroporphyrinogen decarboxylase [Synechococcus sp.]'		
Seq. No.	57903	Seq. ID	OJ000250_33.0419.C38
Gene No.	121083	Strand	-
Start	893	End	1297
Name	OJ000250_33.0419.C38.o2.gs	Method	GENSCAN
Start	893	End	1297
GI	none	Score	.98
Exons	893..1297		
Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121084	Strand	+
Start	1	End	345
Name	OJ000250_33.0419.C39.o1.gp	Method	AAT/GAP
Start	1	End	345
GI	uC-osflcyp162c01b1	Score	670
Exons	1..345		
GI Descrip.	'4559381/gb|AAD23041.1|AC006526_6 8.0e-35 (AC006526) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121085	Strand	+
Start	1377	End	3992
Name	OJ000250_33.0419.C39.o1.gs	Method	GENSCAN
Start	1377	End	3917
GI	none	Score	.86
Exons	1377..2622, 3765..3917		
Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121085	Strand	+
Start	1377	End	3992
Name	OJ000250_33.0419.C39.o1.np	Method	AAT/NAP
Start	1895	End	3992
GI	2129550	Score	1095
Exons	1895..2622, 3537..3679, 3765..3992		
GI Descrip.	calcium-dependent protein kinase (EC 2.7.1.-) CDPK6 - Arabidopsis thaliana gi|2129554|pir||S71901 calcium-dependent protein kinase 6 - Arabidopsis thaliana gi|7428013|pir||S71774 calcium-dependent protein kinase (EC 2.7.1.-) 6 - Arabidopsis thaliana gi|836940|gb|AAA67654.1| (U20623) calcium-dependent protein kinase [Arabidopsis thaliana] gi|836944|gb|AAA67656.1| (U20625) ca		
Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39

Gene No.	121086	Strand	-
Start	745	End	1282
Name	OJ000250_33.0419.C39.o2.gp	Method	AAT/GAP
Start	745	End	1282
GI	none	Score	949
Exons	745..1282		

Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121087	Strand	
Start	2112	End	3919
Name	OJ000250_33.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	2112	End	3919
GI	none	Score	806
Exons	2112..2615, 2114..2638, 2142..2669, 2510..2617, 3540..3677, 3562..3678, 3563..3679, 3758..3919, 3763..3915		

Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121087	Strand	
Start	2112	End	3919
Name	OJ000250_33.0419.C39.o1.ts	Method	TBLASTX:Soybean
Start	2112	End	3919
GI	none	Score	750
Exons	2112..2624, 2114..2638, 3535..3678, 3562..3678, 3756..3914, 3756..3893, 3758..3919, 3763..3918		

Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121087	Strand	
Start	2112	End	3919
Name	OJ000250_33.0419.C39.o1.tc	Method	TBLASTX:Cress
Start	2114	End	3919
GI	none	Score	742
Exons	2114..2638, 2115..2624, 3536..3562, 3561..3680, 3561..3689, 3562..3690, 3758..3919, 3763..3909		

Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121087	Strand	
Start	2112	End	3919
Name	OJ000250_33.0419.C39.o1.tw	Method	TBLASTX:Wheat
Start	2286	End	2573
GI	none	Score	358
Exons	2286..2573, 2286..2573		

Seq. No.	57904	Seq. ID	OJ000250_33.0419.C39
Gene No.	121087	Strand	
Start	2112	End	3919
Name	OJ000250_33.0419.C39.o2.tw	Method	TBLASTX:Wheat
Start	2574	End	3916
GI	none	Score	72
Exons	2574..2624, 2576..2626, 2578..2631, 3544..3675, 3549..3698, 3562..3678, 3758..3916, 3763..3900		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121088	Strand	+
Start	184	End	2156
Name	OJ000250_33.0419.C40.o1.np	Method	AAT/NAP
Start	184	End	1755
GI	2129550	Score	669

Exons	184..298, 382..549, 1166..1293, 1383..1482, 1675..1755
GI Descrip.	calcium-dependent protein kinase (EC 2.7.1.-) CDPK6 - Arabidopsis thaliana gi|2129554|pir||S71901 calcium-dependent protein kinase 6 - Arabidopsis thaliana gi|7428013|pir||S71774 calcium-dependent protein kinase (EC 2.7.1.-) 6 - Arabidopsis thaliana gi|836940|gb|AAA67654.1| (U20623) calcium-dependent protein kinase [Arabidopsis thaliana] gi|836944|gb|AAA67656.1| (U20625) ca

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121088	Strand	+
Start	184	End	2156
Name	OJ000250_33.0419.C40.o1.gp	Method	AAT/GAP
Start	224	End	2156
GI	26483_1.R1084	Score	1725
Exons	224..298, 382..549, 1166..1293, 1383..1482, 1675..2156		
GI Descrip.	'2129550/pir||S71197 1.0e-71 calcium-dependent protein kinase (EC 2.7.1.-) CDPK6 - Arabidopsis thaliana >gi_2129554_pir__S71901 calcium-dependent protein kinase 6 - Arabidopsis thaliana >gi_836940 (U20623) calcium-dependent protein kinase [Arabidopsis thaliana] >gi_836944 (U20625) calcium-dependent protein kinase [Arabidopsis thaliana] >gi_4454034_emb_CAA23031.1_ (AL035394) calcium-d'		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121088	Strand	+
Start	184	End	2156
Name	OJ000250_33.0419.C40.o1.gs	Method	GENSCAN
Start	382	End	1761
GI	none	Score	.99
Exons	382..549, 1166..1293, 1383..1482, 1675..1761		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121089	Strand	+
Start	7193	End	7294
Name	OJ000250_33.0419.C40.o3.gp	Method	AAT/GAP
Start	7193	End	7294
GI	LIB3477-003-P1-K1-E9	Score	155
Exons	7193..7294		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	157	End	1872
GI	none	Score	88
Exons	157..237, 179..244, 183..290, 183..251, 185..286, 248..316, 250..327, 379..549, 381..572, 382..549, 1165..1296, 1166..1309, 1377..1475, 1377..1484, 1378..1482, 1378..1500, 1675..1764, 1676..1762, 1795..1872		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648

Name	OJ000250_33.0419.C40.o2.tm	Method	TBLASTX:Maize
Start	157	End	1872
GI	none	Score	88
Exons	157..237, 179..244, 183..290, 183..251, 185..286, 248..316, 250..327, 379..549, 381..572, 382..549, 1165..1308, 1165..1296, 1166..1309, 1377..1475, 1377..1484, 1378..1482, 1675..1764, 1676..1762, 1795..1872		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	183	End	1755
GI	none	Score	96
Exons	183..290, 248..316, 250..327, 379..543, 381..593, 382..549, 640..711, 1165..1293, 1166..1294, 1378..1479, 1386..1478, 1672..1755, 1674..1748		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	459	End	1722
GI	none	Score	83
Exons	459..530, 460..570, 1165..1296, 1166..1309, 1378..1437, 1675..1722		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o2.gp	Method	AAT/GAP
Start	2403	End	4761
GI	30192_1.R1084	Score	1965
Exons	2403..2883, 3032..3120, 3282..3319, 3412..3484, 3562..3645, 3734..3833, 3911..4061, 4701..4761		
GI Descrip.	'3702327 5.0e-47 (AC005397) unknown protein [Arabidopsis thaliana]'		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	2597	End	4787
GI	none	Score	53
Exons	2597..2650, 2613..2648, 2716..2889, 2717..2884, 2722..2886, 3055..3126, 3404..3496, 3417..3494, 3563..3637, 3573..3638, 3692..3823, 3735..3833, 3736..3834, 3738..3836, 3906..4007, 3911..4060, 3912..4061, 3913..4062, 4700..4786, 4704..4787		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o2.gs	Method	GENSCAN
Start	2728	End	8648
GI	none	Score	.66
Exons	2728..2883, 3032..3120, 3282..3319, 3412..3484, 3562..3645, 3734..3833, 3911..4061, 4701..4783, 4914..5100, 5343..5524,		

8571..8648

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o2.np	Method	AAT/NAP
Start	2731	End	5383
GI	3702327	Score	375
Exons	2731..2883, 3283..3629, 3670..3829, 3868..4061, 4701..4795, 5343..5383		
GI Descrip.	(AC005397) unknown protein [Arabidopsis thaliana]		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o3.np	Method	AAT/NAP
Start	2731	End	4788
GI	3702327	Score	370
Exons	2731..2883, 3283..3629, 3670..3829, 3868..4061, 4701..4788		
GI Descrip.	(AC005397) unknown protein [Arabidopsis thaliana]		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o2.ts	Method	TBLASTX:Soybean
Start	3718	End	4787
GI	none	Score	100
Exons	3718..3843, 3732..3833, 3902..4054, 3902..4060, 3915..4064, 4700..4786, 4701..4787		

Seq. No.	57905	Seq. ID	OJ000250_33.0419.C40
Gene No.	121090	Strand	-
Start	2403	End	8648
Name	OJ000250_33.0419.C40.o2.tc	Method	TBLASTX:Cress
Start	3780	End	4967
GI	none	Score	64
Exons	3780..3833, 3781..3864, 3902..4060, 3903..4082, 4700..4786, 4701..4787, 4914..4967		

Seq. No.	57906	Seq. ID	OJ000250_33.0419.C41
Gene No.	121091	Strand	+
Start	297	End	432
Name	OJ000250_33.0419.C41.o1.gs	Method	GENSCAN
Start	297	End	432
GI	none	Score	.82
Exons	297..432		

Seq. No.	57906	Seq. ID	OJ000250_33.0419.C41
Gene No.	121092	Strand	+
Start	957	End	1034
Name	OJ000250_33.0419.C41.o1.gp	Method	AAT/GAP
Start	957	End	1034
GI	90742_1.R1084	Score	94
Exons	957..1034		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	57906	Seq. ID	OJ000250_33.0419.C41
Gene No.	121093	Strand	-
Start	3523	End	4440
Name	OJ000250_33.0419.C41.o1.np	Method	AAT/NAP
Start	2933	End	4440
GI	5902366	Score	178
Exons	2933..3005, 4131..4440		
GI Descrip.	(AC009322) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57906	Seq. ID	OJ000250_33.0419.C41
Gene No.	121093	Strand	-
Start	3523	End	4440
Name	OJ000250_33.0419.C41.o2.gs	Method	GENSCAN
Start	3523	End	4412
GI	none	Score	.92
Exons	3523..3720, 3879..4412		

Seq. No.	57907	Seq. ID	OJ000250_33.0419.C42
Gene No.	121094	Strand	-
Start	1	End	739
Name	OJ000250_33.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	721
GI	5902366	Score	632
Exons	1..721		
GI Descrip.	(AC009322) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57907	Seq. ID	OJ000250_33.0419.C42
Gene No.	121094	Strand	-
Start	1	End	739
Name	OJ000250_33.0419.C42.o1.gs	Method	GENSCAN
Start	65	End	739
GI	none	Score	.9
Exons	65..100, 125..739		

Seq. No.	57907	Seq. ID	OJ000250_33.0419.C42
Gene No.	121095	Strand	-
Start	2222	End	2343
Name	OJ000250_33.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	272	End	658
GI	none	Score	256
Exons	272..595, 273..584, 584..658		

Seq. No.	57907	Seq. ID	OJ000250_33.0419.C42
Gene No.	121095	Strand	-
Start	2222	End	2343
Name	OJ000250_33.0419.C42.o2.gs	Method	GENSCAN
Start	2222	End	2343
GI	none	Score	.63
Exons	2222..2343		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	2122
GI	7106508	Score	455
Exons	1..265, 324..566, 2083..2122		

GI Descrip. (AP001278) hypothetical protein [Oryza sativa]

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o1.gs	Method	GENSCAN
Start	31	End	236
GI	none	Score	.98
Exons	31..87, 105..236		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o2.gs	Method	GENSCAN
Start	1264	End	3612
GI	none	Score	.8
Exons	1264..1692, 1801..3362, 3576..3612		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o2.np	Method	AAT/NAP
Start	1277	End	2978
GI	7486965	Score	1257
Exons	1277..1692, 1801..1959, 2002..2640, 2671..2978		
GI Descrip.	hypothetical protein T13J8.80 - Arabidopsis thaliana gi|4455356|emb|CAB36766.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269651|emb|CAB79599.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	1426	End	1906
GI	none	Score	277
Exons	1426..1692, 1427..1693, 1801..1905, 1847..1906		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o1.tw	Method	TBLASTX:Wheat
Start	1552	End	2019
GI	none	Score	49
Exons	1552..1641, 1559..1642, 1627..1689, 1643..1690, 1798..2019, 1847..2017		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o1.tc	Method	TBLASTX:Cress
Start	1801	End	2173
GI	none	Score	339
Exons	1801..2172, 1847..2173		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-

Start	1	End	3612
Name	OJ000250_33.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	1801	End	2053
GI	none	Score	212
Exons	1801..2052, 1847..2053		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	1906	End	2263
GI	none	Score	60
Exons	1906..1959, 1910..1942, 1939..2262, 1940..2263		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o2.ts	Method	TBLASTX:Soybean
Start	2206	End	2448
GI	none	Score	143
Exons	2206..2448, 2219..2440		

Seq. No.	57908	Seq. ID	OJ000250_33.0419.C43
Gene No.	121096	Strand	-
Start	1	End	3612
Name	OJ000250_33.0419.C43.o3.tm	Method	TBLASTX:Maize
Start	2368	End	2748
GI	none	Score	191
Exons	2368..2649, 2369..2533, 2659..2748		

Seq. No.	57909	Seq. ID	OJ000250_33.0419.C44
Gene No.	121097	Strand	-
Start	477	End	3486
Name	OJ000250_33.0419.C44.o1.gs	Method	GENSCAN
Start	477	End	3486
GI	none	Score	.43
Exons	477..557, 754..824, 1255..1457, 3425..3486		

Seq. No.	57909	Seq. ID	OJ000250_33.0419.C44
Gene No.	121098	Strand	-
Start	7453	End	8833
Name	OJ000250_33.0419.C44.o1.np	Method	AAT/NAP
Start	7453	End	8833
GI	5922615	Score	68
Exons	7453..7590, 8223..8252, 8762..8833		
GI Descrip.	(AP000492) EST AU056052(S20251) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016848|dbj|BAA85191.1| (AP000570) EST AU056052(S20251) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57910	Seq. ID	OJ000250_33.0419.C45
Gene No.	121099	Strand	+
Start	181	End	1436
Name	OJ000250_33.0419.C45.o1.gs	Method	GENSCAN
Start	181	End	1436
GI	none	Score	.61

Exons 181..361, 769..899, 1082..1436

Seq. No.	57911	Seq. ID	OJ000250_33.0419.C52
Gene No.	121100	Strand	-
Start	68	End	308
Name	OJ000250_33.0419.C52.o1.gs	Method	GENSCAN
Start	68	End	308
GI	none	Score	.42
Exons	68..308		

Seq. No.	57912	Seq. ID	OJ000250_33.0419.C53
Gene No.	121101	Strand	+
Start	1	End	3083
Name	OJ000250_33.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	2935
GI	4680183	Score	1146
Exons	1..91, 270..363, 700..1926, 2392..2433, 2521..2935		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	57912	Seq. ID	OJ000250_33.0419.C53
Gene No.	121101	Strand	+
Start	1	End	3083
Name	OJ000250_33.0419.C53.o4.tw	Method	TBLASTX:Wheat
Start	749	End	1094
GI	none	Score	41
Exons	749..787, 790..864, 795..851, 820..921, 834..920, 896..1045, 918..1094		

Seq. No.	57912	Seq. ID	OJ000250_33.0419.C53
Gene No.	121101	Strand	+
Start	1	End	3083
Name	OJ000250_33.0419.C53.o1.tw	Method	TBLASTX:Wheat
Start	1725	End	2492
GI	none	Score	128
Exons	1725..1907, 1733..1906, 1944..2180, 1946..2170, 2238..2492, 2327..2488		

Seq. No.	57912	Seq. ID	OJ000250_33.0419.C53
Gene No.	121101	Strand	+
Start	1	End	3083
Name	OJ000250_33.0419.C53.o3.tw	Method	TBLASTX:Wheat
Start	2493	End	2725
GI	none	Score	208
Exons	2493..2687, 2493..2663, 2495..2686, 2657..2725, 2668..2724		

Seq. No.	57912	Seq. ID	OJ000250_33.0419.C53
Gene No.	121101	Strand	+
Start	1	End	3083
Name	OJ000250_33.0419.C53.o1.tm	Method	TBLASTX:Maize
Start	2502	End	2857
GI	none	Score	184
Exons	2502..2696, 2556..2660, 2564..2683, 2657..2857, 2665..2856		

Seq. No.	57912	Seq. ID	OJ000250_33.0419.C53
Gene No.	121101	Strand	+
Start	1	End	3083
Name	OJ000250_33.0419.C53.o2.tw	Method	TBLASTX:Wheat

Start	2726	End	3083
GI	none	Score	262
Exons	2726..2974, 2738..2968, 2958..3083, 3053..3073		

Seq. No.	57913	Seq. ID	OJ000250_33.0419.C54
Gene No.	121102	Strand	-
Start	155	End	790
Name	OJ000250_33.0419.C54.o1.gs	Method	GENSCAN
Start	155	End	790
GI	none	Score	.59
Exons	155..262, 711..790		

Seq. No.	57914	Seq. ID	OJ000250_33.0419.C55
Gene No.	121103	Strand	+
Start	1	End	1325
Name	OJ000250_33.0419.C55.o1.np	Method	AAT/NAP
Start	1	End	1325
GI	6983860	Score	1648
Exons	1..902, 1158..1325		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	57914	Seq. ID	OJ000250_33.0419.C55
Gene No.	121103	Strand	+
Start	1	End	1325
Name	OJ000250_33.0419.C55.o3.tw	Method	TBLASTX:Wheat
Start	1	End	168
GI	none	Score	180
Exons	1..168, 3..167, 13..168		

Seq. No.	57914	Seq. ID	OJ000250_33.0419.C55
Gene No.	121103	Strand	+
Start	1	End	1325
Name	OJ000250_33.0419.C55.o1.gs	Method	GENSCAN
Start	180	End	896
GI	none	Score	.81
Exons	180..488, 624..738, 819..896		

Seq. No.	57914	Seq. ID	OJ000250_33.0419.C55
Gene No.	121103	Strand	+
Start	1	End	1325
Name	OJ000250_33.0419.C55.o1.tw	Method	TBLASTX:Wheat
Start	217	End	546
GI	none	Score	280
Exons	217..414, 220..546		

Seq. No.	57914	Seq. ID	OJ000250_33.0419.C55
Gene No.	121103	Strand	+
Start	1	End	1325
Name	OJ000250_33.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	220	End	513
GI	none	Score	235
Exons	220..513, 220..456		

Seq. No.	57914	Seq. ID	OJ000250_33.0419.C55
Gene No.	121103	Strand	+
Start	1	End	1325

Name	OJ000250_33.0419.C55.o2.tw	Method	TBLASTX:Wheat
Start	902	End	1255
GI	none	Score	256
Exons	902..1255		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o1.np	Method	AAT/NAP
Start	1	End	2009
GI	4680179	Score	3004
Exons	1..2009		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o2.tw	Method	TBLASTX:Wheat
Start	7	End	432
GI	none	Score	596
Exons	7..432, 9..425, 82..432		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o2.ts	Method	TBLASTX:Soybean
Start	13	End	261
GI	none	Score	207
Exons	13..261		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o2.tm	Method	TBLASTX:Maize
Start	79	End	432
GI	none	Score	460
Exons	79..432, 84..425		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o1.gs	Method	GENSCAN
Start	133	End	2012
GI	none	Score	.66
Exons	133..799, 829..2012		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o3.tw	Method	TBLASTX:Wheat
Start	463	End	999
GI	none	Score	260
Exons	463..771, 642..761, 755..994, 756..998, 759..998, 760..999		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012

Name	OJ000250_33.0419.C56.o1.ts	Method	TBLASTX:Soybean
Start	786	End	1046
GI	none	Score	302
Exons	786..1046, 797..1045		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o3.tm	Method	TBLASTX:Maize
Start	845	End	1136
GI	none	Score	410
Exons	845..1132, 846..1136		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o1.tw	Method	TBLASTX:Wheat
Start	1005	End	1631
GI	none	Score	712
Exons	1005..1631, 1061..1513, 1571..1630		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	1184	End	1769
GI	none	Score	225
Exons	1184..1339, 1185..1346, 1199..1348, 1343..1516, 1344..1769, 1503..1748, 1571..1768		

Seq. No.	57915	Seq. ID	OJ000250_33.0419.C56
Gene No.	121104	Strand	+
Start	1	End	2012
Name	OJ000250_33.0419.C56.o4.tw	Method	TBLASTX:Wheat
Start	1631	End	1964
GI	none	Score	315
Exons	1631..1912, 1632..1964		

Seq. No.	57916	Seq. ID	OJ000250_33.0419.C57
Gene No.	121105	Strand	+
Start	1	End	721
Name	OJ000250_33.0419.C57.o1.np	Method	AAT/NAP
Start	1	End	721
GI	5852175	Score	82
Exons	1..49, 593..721		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	57917	Seq. ID	OJ000250_33.0419.C60
Gene No.	121106	Strand	-
Start	1	End	404
Name	OJ000250_33.0419.C60.o1.gp	Method	AAT/GAP
Start	1	End	404
GI	none	Score	738
Exons	1..404		

Seq. No.	57918	Seq. ID	OJ000250_33.0419.C61
Gene No.	121107	Strand	-

Start	1	End	1442
Name	OJ000250_33.0419.C61.o1.gp	Method	AAT/GAP
Start	1	End	1107
GI	15630_1.R1084	Score	2117
Exons	1..1107		
GI Descrip.	'4432860/gb|AAD20708| 9.0e-28 (AC006300) putative glucose-induced repressor protein [Arabidopsis thaliana]'		

Seq. No.	57918	Seq. ID	OJ000250_33.0419.C61
Gene No.	121107	Strand	-
Start	1	End	1442
Name	OJ000250_33.0419.C61.o1.gs	Method	GENSCAN
Start	210	End	1372
GI	none	Score	.58
Exons	210..285, 661..1372		

Seq. No.	57918	Seq. ID	OJ000250_33.0419.C61
Gene No.	121107	Strand	-
Start	1	End	1442
Name	OJ000250_33.0419.C61.o1.tm	Method	TBLASTX:Maize
Start	387	End	1442
GI	none	Score	57
Exons	387..416, 388..417, 426..515, 426..515, 427..516, 441..524, 603..647, 609..647, 610..651, 616..660, 678..743, 685..744, 689..745, 746..1273, 747..1274, 747..1127, 755..1273, 908..1039, 908..1015, 1100..1258, 1106..1261, 1121..1255, 1124..1333, 1154..1414, 1169..1261, 1248..1442, 1277..1441		

Seq. No.	57918	Seq. ID	OJ000250_33.0419.C61
Gene No.	121107	Strand	-
Start	1	End	1442
Name	OJ000250_33.0419.C61.o1.ts	Method	TBLASTX:Soybean
Start	685	End	1442
GI	none	Score	348
Exons	685..768, 758..1435, 831..1442, 908..1060, 908..1012, 1097..1258, 1193..1267		

Seq. No.	57918	Seq. ID	OJ000250_33.0419.C61
Gene No.	121107	Strand	-
Start	1	End	1442
Name	OJ000250_33.0419.C61.o1.np	Method	AAT/NAP
Start	688	End	1442
GI	4432860	Score	558
Exons	688..1442		
GI Descrip.	(AC006300) putative glucose regulated repressor protein [Arabidopsis thaliana]		

Seq. No.	57918	Seq. ID	OJ000250_33.0419.C61
Gene No.	121107	Strand	-
Start	1	End	1442
Name	OJ000250_33.0419.C61.o1.tc	Method	TBLASTX:Cress
Start	691	End	1412
GI	none	Score	195
Exons	691..717, 761..904, 770..886, 869..1267, 873..1268, 917..1042, 1311..1412, 1316..1411		

Seq. No.	57919	Seq. ID	OJ000250_33.0419.C63

Gene No.	121108	Strand	+
Start	981	End	1288
Name	OJ000250_33.0419.C63.o1.gs	Method	GENSCAN
Start	981	End	1288
GI	none	Score	.68
Exons	981..1032, 1089..1288		

Seq. No.	57919	Seq. ID	OJ000250_33.0419.C63
Gene No.	121109	Strand	-
Start	2671	End	2836
Name	OJ000250_33.0419.C63.o2.gs	Method	GENSCAN
Start	2671	End	2836
GI	none	Score	.89
Exons	2671..2836		

Seq. No.	57920	Seq. ID	OJ000250_33.0419.C65
Gene No.	121110	Strand	-
Start	55	End	734
Name	OJ000250_33.0419.C65.o1.gs	Method	GENSCAN
Start	55	End	734
GI	none	Score	.92
Exons	55..279, 513..734		

Seq. No.	57921	Seq. ID	OJ000250_33.0419.C66
Gene No.	121111	Strand	+
Start	10	End	350
Name	OJ000250_33.0419.C66.o1.gs	Method	GENSCAN
Start	10	End	350
GI	none	Score	.6
Exons	10..350		

Seq. No.	57922	Seq. ID	OJ000250_33.0419.C67
Gene No.	121112	Strand	-
Start	139	End	308
Name	OJ000250_33.0419.C67.o1.gp	Method	AAT/GAP
Start	139	End	308
GI	2796906	Score	309
Exons	139..308		

Seq. No.	57922	Seq. ID	OJ000250_33.0419.C67
Gene No.	121113	Strand	-
Start	282	End	601
Name	OJ000250_33.0419.C67.o1.gs	Method	GENSCAN
Start	282	End	601
GI	none	Score	.69
Exons	282..601		

Seq. No.	57923	Seq. ID	OJ000250_33.0419.C69
Gene No.	121114	Strand	+
Start	1	End	766
Name	OJ000250_33.0419.C69.o1.np	Method	AAT/NAP
Start	1	End	407
GI	7487766	Score	274
Exons	1..215, 284..407		
GI Descrip.	hypothetical protein T6K21.120 - Arabidopsis thaliana gi|2894603|emb|CAA17137.1| (AL021889) putative protein [Arabidopsis thaliana] gi|7268546|emb|CAB78796.1| (AL161547)		

putative protein [Arabidopsis thaliana]

Seq. No.	57923	Seq. ID	OJ000250_33.0419.C69
Gene No.	121114	Strand	+
Start	1	End	766
Name	OJ000250_33.0419.C69.o1.gp	Method	AAT/GAP
Start	50	End	766
GI	59683_1.R1084	Score	1147
Exons	50..215, 284..766		
GI Descrip.	'2864610/emb|CAA16957| 4.0e-09 (AL021811) putative protein [Arabidopsis thaliana] >gi_4049336_emb_CAA22561.1_ (AL034567) putative protein [Arabidopsis thaliana]'		

Seq. No.	57923	Seq. ID	OJ000250_33.0419.C69
Gene No.	121114	Strand	+
Start	1	End	766
Name	OJ000250_33.0419.C69.o1.gs	Method	GENSCAN
Start	70	End	413
GI	none	Score	.72
Exons	70..215, 284..413		

Seq. No.	57923	Seq. ID	OJ000250_33.0419.C69
Gene No.	121115	Strand	+
Start	819	End	1057
Name	OJ000250_33.0419.C69.o1.tc	Method	TBLASTX:Cress
Start	1	End	323
GI	none	Score	190
Exons	1..183, 13..165, 288..323		

Seq. No.	57923	Seq. ID	OJ000250_33.0419.C69
Gene No.	121115	Strand	+
Start	819	End	1057
Name	OJ000250_33.0419.C69.o1.tm	Method	TBLASTX:Maize
Start	1	End	428
GI	none	Score	258
Exons	1..189, 6..101, 13..165, 192..215, 284..313, 285..323, 367..417, 369..428, 376..420		

Seq. No.	57923	Seq. ID	OJ000250_33.0419.C69
Gene No.	121115	Strand	+
Start	819	End	1057
Name	OJ000250_33.0419.C69.o1.ts	Method	TBLASTX:Soybean
Start	1	End	320
GI	none	Score	223
Exons	1..183, 12..101, 285..320		

Seq. No.	57923	Seq. ID	OJ000250_33.0419.C69
Gene No.	121115	Strand	+
Start	819	End	1057
Name	OJ000250_33.0419.C69.o2.gp	Method	AAT/GAP
Start	819	End	1057
GI	none	Score	449
Exons	819..1057		

Seq. No.	57924	Seq. ID	OJ000250_33.0419.C75
Gene No.	121116	Strand	-
Start	514	End	686

Name	OJ000250_33.0419.C75.o1.gs	Method	GENSCAN
Start	514	End	686
GI	none	Score	.9
Exons	514..686		

Seq. No.	57925	Seq. ID	OJ000250_33.0419.C76
Gene No.	121117	Strand	+
Start	764	End	2045
Name	OJ000250_33.0419.C76.o1.gs	Method	GENSCAN
Start	764	End	2045
GI	none	Score	.62
Exons	764..1060, 1878..2045		

Seq. No.	57925	Seq. ID	OJ000250_33.0419.C76
Gene No.	121118	Strand	-
Start	3243	End	3352
Name	OJ000250_33.0419.C76.o2.gs	Method	GENSCAN
Start	3243	End	3352
GI	none	Score	.74
Exons	3243..3352		

Seq. No.	57926	Seq. ID	OJ000250_33.0419.C77
Gene No.	121119	Strand	+
Start	915	End	1298
Name	OJ000250_33.0419.C77.o1.gp	Method	AAT/GAP
Start	915	End	1298
GI	uC-osflcyp033a04b1	Score	655
Exons	915..1298		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	57926	Seq. ID	OJ000250_33.0419.C77
Gene No.	121120	Strand	-
Start	19	End	1537
Name	OJ000250_33.0419.C77.o1.gs	Method	GENSCAN
Start	19	End	1200
GI	none	Score	.67
Exons	19..167, 895..1050, 1147..1200		

Seq. No.	57926	Seq. ID	OJ000250_33.0419.C77
Gene No.	121120	Strand	-
Start	19	End	1537
Name	OJ000250_33.0419.C77.o1.np	Method	AAT/NAP
Start	848	End	1537
GI	4680186	Score	320
Exons	848..1050, 1431..1537		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78
Gene No.	121121	Strand	+
Start	53	End	184
Name	OJ000250_33.0419.C78.o1.gs	Method	GENSCAN
Start	53	End	184
GI	none	Score	.58
Exons	53..184		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78

Gene No.	121122	Strand	+
Start	2011	End	2866
Name	OJ000250_33.0419.C78.o3.gs	Method	GENSCAN
Start	2011	End	2835
GI	none	Score	.62
Exons	2011..2080, 2190..2330, 2523..2835		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78
Gene No.	121122	Strand	+
Start	2011	End	2866
Name	OJ000250_33.0419.C78.o4.np	Method	AAT/NAP
Start	2210	End	2866
GI	6907089	Score	239
Exons	2210..2866		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78
Gene No.	121122	Strand	+
Start	2011	End	2866
Name	OJ000250_33.0419.C78.o3.np	Method	AAT/NAP
Start	2231	End	2866
GI	6721558	Score	123
Exons	2231..2333, 2844..2866		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78
Gene No.	121123	Strand	-
Start	1	End	1820
Name	OJ000250_33.0419.C78.o2.np	Method	AAT/NAP
Start	1	End	1820
GI	7523517	Score	258
Exons	1..31, 1327..1381, 1526..1820		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78
Gene No.	121123	Strand	-
Start	1	End	1820
Name	OJ000250_33.0419.C78.o2.tm	Method	TBLASTX:Maize
Start	537	End	889
GI	none	Score	100
Exons	537..575, 691..867, 695..850, 695..889, 696..887		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78
Gene No.	121123	Strand	-
Start	1	End	1820
Name	OJ000250_33.0419.C78.o1.ts	Method	TBLASTX:Soybean
Start	710	End	923
GI	none	Score	150
Exons	710..913, 711..923		

Seq. No.	57927	Seq. ID	OJ000250_33.0419.C78
Gene No.	121123	Strand	-
Start	1	End	1820
Name	OJ000250_33.0419.C78.o1.tm	Method	TBLASTX:Maize
Start	893	End	1327

GI	none	Score	88
Exons	893..1018, 893..967, 943..1017, 1028..1327, 1185..1313		
Seq. No.	57928	Seq. ID	OJ000250_33.0419.C79
Gene No.	121124	Strand	+
Start	1	End	1642
Name	OJ000250_33.0419.C79.o1.np	Method	AAT/NAP
Start	1	End	915
GI	6721561	Score	968
Exons	1..92, 158..915		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	57928	Seq. ID	OJ000250_33.0419.C79
Gene No.	121124	Strand	+
Start	1	End	1642
Name	OJ000250_33.0419.C79.o1.gs	Method	GENSCAN
Start	340	End	1642
GI	none	Score	.74
Exons	340..873, 1170..1490, 1523..1642		
Seq. No.	57929	Seq. ID	OJ000250_33.0419.C82
Gene No.	121125	Strand	+
Start	253	End	327
Name	OJ000250_33.0419.C82.o1.gs	Method	GENSCAN
Start	253	End	327
GI	none	Score	.73
Exons	253..327		
Seq. No.	57930	Seq. ID	OJ000250_33.0419.C84
Gene No.	121126	Strand	-
Start	860	End	970
Name	OJ000250_33.0419.C84.o1.gs	Method	GENSCAN
Start	860	End	970
GI	none	Score	.92
Exons	860..970		
Seq. No.	57931	Seq. ID	OJ000250_33.0419.C86
Gene No.	121127	Strand	+
Start	2529	End	2906
Name	OJ000250_33.0419.C86.o1.gp	Method	AAT/GAP
Start	2529	End	2906
GI	none	Score	711
Exons	2529..2906		
Seq. No.	57931	Seq. ID	OJ000250_33.0419.C86
Gene No.	121128	Strand	-
Start	451	End	814
Name	OJ000250_33.0419.C86.o1.gs	Method	GENSCAN
Start	451	End	814
GI	none	Score	.69
Exons	451..602, 760..814		
Seq. No.	57932	Seq. ID	OJ000250_33.0419.C88

Gene No.	121129	Strand	+
Start	182	End	435
Name	OJ000250_33.0419.C88.o1.np	Method	AAT/NAP
Start	182	End	435
GI	862343	Score	157
Exons	182..435		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi|1092097|prf||2022314A granule cell marker protein [Mus musculus] gi|1092098|prf||2022315A granule cell marker protein [Mus musculus]		

Seq. No.	57932	Seq. ID	OJ000250_33.0419.C88
Gene No.	121130	Strand	+
Start	337	End	436
Name	OJ000250_33.0419.C88.o1.gp	Method	AAT/GAP
Start	337	End	436
GI	LIB3477-003-P1-K1-E9	Score	150
Exons	337..436		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	57932	Seq. ID	OJ000250_33.0419.C88
Gene No.	121131	Strand	-
Start	945	End.	1164
Name	OJ000250_33.0419.C88.o1.gs	Method	GENSCAN
Start	945	End	1164
GI	none	Score	.88
Exons	945..1049, 1132..1164		

Seq. No.	57933	Seq. ID	OJ000250_33.0419.C91
Gene No.	121132	Strand	+
Start	1	End	316
Name	OJ000250_33.0419.C91.o1.np	Method	AAT/NAP
Start	1	End	295
GI	4680203	Score	250
Exons	1..295		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	57933	Seq. ID	OJ000250_33.0419.C91
Gene No.	121132	Strand	+
Start	1	End	316
Name	OJ000250_33.0419.C91.o1.gs	Method	GENSCAN
Start	47	End	316
GI	none	Score	.9
Exons	47..171, 244..316		

Seq. No.	57933	Seq. ID	OJ000250_33.0419.C91
Gene No.	121133	Strand	-
Start	1355	End	2188
Name	OJ000250_33.0419.C91.o1.tw	Method	TBLASTX:Wheat
Start	2	End	235
GI	none	Score	70
Exons	2..55, 4..66, 11..73, 79..132, 80..160, 149..235, 153..224, 175..231		

Seq. No.	57933	Seq. ID	OJ000250_33.0419.C91

Gene No.	121133	Strand	-
Start	1355	End	2188
Name	OJ000250_33.0419.C91.o2.gs	Method	GENSCAN
Start	1355	End	2188
GI	none	Score	.78
Exons	1355..1561, 1856..1957, 2019..2188		

Seq. No.	57934	Seq. ID	OJ000250_33.0419.C94
Gene No.	121134	Strand	+
Start	1	End	826
Name	OJ000250_33.0419.C94.o2.np	Method	AAT/NAP
Start	1	End	826
GI	6967093	Score	102
Exons	1..41, 286..468, 585..826		
GI Descrip.	(AL132953) putative protein [Arabidopsis thaliana]		

Seq. No.	57934	Seq. ID	OJ000250_33.0419.C94
Gene No.	121134	Strand	+
Start	1	End	826
Name	OJ000250_33.0419.C94.o1.tm	Method	TBLASTX:Maize
Start	2	End	459
GI	none	Score	277
Exons	2..202, 2..211, 284..400, 325..399, 392..454, 395..457, 396..458, 397..459		

Seq. No.	57934	Seq. ID	OJ000250_33.0419.C94
Gene No.	121134	Strand	+
Start	1	End	826
Name	OJ000250_33.0419.C94.o1.gs	Method	GENSCAN
Start	92	End	714
GI	none	Score	.66
Exons	92..147, 286..468, 585..714		

Seq. No.	57934	Seq. ID	OJ000250_33.0419.C94
Gene No.	121134	Strand	+
Start	1	End	826
Name	OJ000250_33.0419.C94.o2.tm	Method	TBLASTX:Maize
Start	577	End	783
GI	none	Score	265
Exons	577..783, 582..782		

Seq. No.	57935	Seq. ID	OJ000130_34.0419.C3
Gene No.	121135	Strand	+
Start	1039	End	1632
Name	OJ000130_34.0419.C3.o1.gs	Method	GENSCAN
Start	1039	End	1632
GI	none	Score	.82
Exons	1039..1093, 1559..1632		

Seq. No.	57935	Seq. ID	OJ000130_34.0419.C3
Gene No.	121136	Strand	-
Start	1	End	1107
Name	OJ000130_34.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1107
GI	6907088	Score	540
Exons	1..63, 557..794, 970..1107		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	57935	Seq. ID	OJ000130_34.0419.C3
Gene No.	121137	Strand	-
Start	2795	End	4075
Name	OJ000130_34.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	2793	End	3240
GI	none	Score	110
Exons	2793..2945, 2795..2944, 2963..3124, 2963..3133, 2967..3134, 3152..3238, 3153..3239, 3211..3240		

Seq. No.	57935	Seq. ID	OJ000130_34.0419.C3
Gene No.	121137	Strand	-
Start	2795	End	4075
Name	OJ000130_34.0419.C3.o2.gs	Method	GENSCAN
Start	2795	End	4055
GI	none	Score	.82
Exons	2795..3717, 3725..4055		

Seq. No.	57935	Seq. ID	OJ000130_34.0419.C3
Gene No.	121137	Strand	-
Start	2795	End	4075
Name	OJ000130_34.0419.C3.o3.np	Method	AAT/NAP
Start	2798	End	4046
GI	3850580	Score	381
Exons	2798..4046		
GI Descrip.	(AC005278) Strong similarity to gb|D14550 extracellular dermal glycoprotein (EDGP) precursor from Daucus carota. ESTs gb|84105 and gb|AI100071 come from this gene. [Arabidopsis thaliana]		

Seq. No.	57935	Seq. ID	OJ000130_34.0419.C3
Gene No.	121137	Strand	-
Start	2795	End	4075
Name	OJ000130_34.0419.C3.o2.np	Method	AAT/NAP
Start	2804	End	4034
GI	7488910	Score	339
Exons	2804..4034		
GI Descrip.	dermal glycoprotein precursor, extracellular - carrot (fragment) gi|285741|dbj|BAA03413.1| (D14550) EDGP precursor [Daucus carota]		

Seq. No.	57935	Seq. ID	OJ000130_34.0419.C3
Gene No.	121137	Strand	-
Start	2795	End	4075
Name	OJ000130_34.0419.C3.o1.gp	Method	AAT/GAP
Start	3778	End	4075
GI	287003	Score	565
Exons	3778..4075		

Seq. No.	57936	Seq. ID	OJ000130_34.0419.C5
Gene No.	121138	Strand	+
Start	839	End	1086
Name	OJ000130_34.0419.C5.o1.gs	Method	GENSCAN
Start	839	End	1086
GI	none	Score	.64
Exons	839..869, 1007..1086		

Seq. No.	57936	Seq. ID	OJ000130_34.0419.C5

Gene No.	121139	Strand	-
Start	2582	End	3165
Name	OJ000130_34.0419.C5.o1.gp	Method	AAT/GAP
Start	2416	End	2939
GI	3760985	Score	926
Exons	2416..2939		
GI Descrip.	3850579 3.0e-14 (AC005278) Strong similarity to gb_D14550 extracellular dermal glycoprotein (EDGP) precursor from Daucus carota. ESTs gb_H37281, gb_T44167, gb_T21813, gb_N38437, gb_Z26470, gb_R65072, gb_N76373, gb_F15470, gb_Z35182, gb_H76373, gb_Z34678 an		

Seq. No.	57936	Seq. ID	OJ000130_34.0419.C5
Gene No.	121139	Strand	-
Start	2582	End	3165
Name	OJ000130_34.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	2570	End	2914
GI	none	Score	84
Exons	2570..2701, 2586..2711, 2733..2822, 2777..2821, 2825..2914, 2838..2879		

Seq. No.	57936	Seq. ID	OJ000130_34.0419.C5
Gene No.	121139	Strand	-
Start	2582	End	3165
Name	OJ000130_34.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	2579	End	2914
GI	none	Score	81
Exons	2579..2701, 2586..2711, 2756..2821, 2757..2822, 2837..2914		

Seq. No.	57936	Seq. ID	OJ000130_34.0419.C5
Gene No.	121139	Strand	-
Start	2582	End	3165
Name	OJ000130_34.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	2582	End	3037
GI	none	Score	116
Exons	2582..2701, 2589..2723, 2646..2711, 2741..2914, 2745..2915, 2954..3037, 2955..3023, 2972..3037		

Seq. No.	57936	Seq. ID	OJ000130_34.0419.C5
Gene No.	121139	Strand	-
Start	2582	End	3165
Name	OJ000130_34.0419.C5.o2.gs	Method	GENSCAN
Start	2582	End	3094
GI	none	Score	92
Exons	2582..3094		

Seq. No.	57936	Seq. ID	OJ000130_34.0419.C5
Gene No.	121139	Strand	-
Start	2582	End	3165
Name	OJ000130_34.0419.C5.o1.np	Method	AAT/NAP
Start	2585	End	3165
GI	3850580	Score	252
Exons	2585..3031, 3089..3165		
GI Descrip.	(AC005278) Strong similarity to gb|D14550 extracellular dermal glycoprotein (EDGP) precursor from Daucus carota. ESTs gb|84105 and gb|AI100071 come from this gene. [Arabidopsis thaliana]		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121140	Strand	+
Start	4390	End	4794
Name	OJ000130_34.0419.C6.o3.gp	Method	AAT/GAP
Start	4390	End	4794
GI	uC-osrocyp008g08a1	Score	719
Exons	4390..4794		
GI Descrip.	'285741/dbj|BAA03413| 2.0e-15 (D14550) EDGP precursor [Daucus carota]'		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121141	Strand	-
Start	1059	End	2512
Name	OJ000130_34.0419.C6.o1.gp	Method	AAT/GAP
Start	1059	End	1377
GI	none	Score	590
Exons	1059..1377		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121141	Strand	-
Start	1059	End	2512
Name	OJ000130_34.0419.C6.o1.gs	Method	GENSCAN
Start	1200	End	2458
GI	none	Score	.66
Exons	1200..1895, 2009..2458		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121141	Strand	-
Start	1059	End	2512
Name	OJ000130_34.0419.C6.o2.gp	Method	AAT/GAP
Start	1489	End	2512
GI	24706_1.R1084	Score	1943
Exons	1489..2512		
GI Descrip.	'285741/dbj|BAA03413| 8.0e-19 (D14550) EDGP precursor [Daucus carota]'		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121142	Strand	-
Start	4517	End	5047
Name	OJ000130_34.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	1197	End	4873
GI	none	Score	128
Exons	1197..1238, 1254..1352, 1362..1418, 2018..2131, 4529..4741, 4530..4742, 4760..4873		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121142	Strand	-
Start	4517	End	5047
Name	OJ000130_34.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	1206	End	4879
GI	none	Score	40
Exons	1206..1331, 1434..1556, 1804..1833, 1852..1950, 2015..2131, 2061..2132, 4529..4690, 4530..4694, 4697..4741, 4760..4879, 4761..4844		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121142	Strand	-

Start	4517	End	5047
Name	OJ000130_34.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	1212	End	4945
GI	none	Score	78
Exons	1212..1235, 1252..1335, 1257..1337, 1362..1547, 1366..1542, 1569..1637, 1570..1626, 4529..4651, 4530..4652, 4637..4861, 4638..4844, 4865..4945, 4866..4931		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121142	Strand	-
Start	4517	End	5047
Name	OJ000130_34.0419.C6.o1.np	Method	AAT/NAP
Start	4517	End	5047
GI	3850579	Score	302
Exons	4517..5047		
GI Descrip.	(AC005278) Strong similarity to gb|D14550 extracellular dermal glycoprotein (EDGP) precursor from Daucus carota. ESTs gb|H37281, gb|T44167, gb|T21813, gb|N38437, gb|Z26470, gb|R65072, gb|N76373, gb|F15470, gb|Z35182, gb|H76373, gb|Z34678 an...		

Seq. No.	57937	Seq. ID	OJ000130_34.0419.C6
Gene No.	121142	Strand	-
Start	4517	End	5047
Name	OJ000130_34.0419.C6.o2.gs	Method	GENSCAN
Start	4517	End	5005
GI	none	Score	1
Exons	4517..5005		

Seq. No.	57938	Seq. ID	OJ000130_34.0419.C7
Gene No.	121143	Strand	-
Start	142	End	572
Name	OJ000130_34.0419.C7.o1.gs	Method	GENSCAN
Start	142	End	572
GI	none	Score	.71
Exons	142..218, 538..572		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121144	Strand	+
Start	70	End	2997
Name	OJ000130_34.0419.C8.o1.gp	Method	AAT/GAP
Start	70	End	2699
GI	10839_1.R1084	Score	1620
Exons	70..144, 222..383, 1632..1826, 2083..2171, 2325..2699		
GI Descrip.	'4510406/gb|AAD21493.1| 1.0e-51 (AC006587) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121144	Strand	+
Start	70	End	2997
Name	OJ000130_34.0419.C8.o1.gs	Method	GENSCAN
Start	72	End	2997
GI	none	Score	.81
Exons	72..144, 222..383, 1632..1826, 2083..2171, 2325..2488, 2912..2997		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8

Gene No.	121145	Strand	-
Start	3591	End	10053
Name	OJ000130_34.0419.C8.o2.gs	Method	GENSCAN
Start	3591	End	10053
GI	none	Score	.75
Exons	3591..4166, 4696..4808, 4862..5086, 5289..5478, 5632..5828, 6834..6921, 8251..8374, 8535..8714, 9101..9243, 9806..9922, 9931..10053		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121145	Strand	-
Start	3591	End	10053
Name	OJ000130_34.0419.C8.o1.np	Method	AAT/NAP
Start	3862	End	6954
GI	7413555	Score	1202
Exons	3862..4166, 4696..5086, 5289..5487, 5638..5798, 6834..6954		
GI Descrip.	(AL162973) protein kinase-like [Arabidopsis thaliana]		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121145	Strand	-
Start	3591	End	10053
Name	OJ000130_34.0419.C8.o2.gp	Method	AAT/GAP
Start	3974	End	4905
GI	3107858	Score	763
Exons	3974..4166, 4696..4905		
GI Descrip.	4510406/gb|AAD21493.1| 1.0e-51 (AC006587) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121146	Strand	-
Start	12517	End	12894
Name	OJ000130_34.0419.C8.o3.gs	Method	GENSCAN
Start	12517	End	12894
GI	none	Score	.98
Exons	12517..12894		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121146	Strand	-
Start	12517	End	12894
Name	OJ000130_34.0419.C8.o2.np	Method	AAT/NAP
Start	12583	End	12891
GI	3738299	Score	289
Exons	12583..12891		
GI Descrip.	(AC005309) putative glutaredoxin [Arabidopsis thaliana]		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	29	End	1765
GI	none	Score	120
Exons	29..145, 38..145, 46..165, 49..147, 221..388, 222..389, 225..416, 1631..1765, 1632..1763, 1649..1765		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366

Name	OJ000130_34.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	55	End	1829
GI	none	Score	66
Exons	55..153, 68..169, 70..192, 221..325, 222..311, 312..389, 320..385, 1631..1777, 1632..1829, 1666..1827		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o3.ts	Method	TBLASTX:Soybean
Start	76	End	391
GI	none	Score	106
Exons	76..147, 76..147, 221..265, 222..299, 290..391, 291..386		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o5.tm	Method	TBLASTX:Maize
Start	1766	End	2678
GI	none	Score	101
Exons	1766..1828, 1766..1828, 1767..1829, 1768..1830, 2080..2157, 2080..2169, 2082..2171, 2298..2504, 2319..2411, 2323..2541, 2329..2475, 2460..2519, 2640..2678, 2645..2677		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	3597	End	5755
GI	none	Score	90
Exons	3597..3701, 3966..4109, 3988..4077, 4093..4125, 4104..4172, 4705..4782, 4706..4783, 4821..4922, 4822..4920, 4834..4929, 4835..4930, 4911..5087, 4923..5087, 4924..5088, 5284..5490, 5300..5476, 5523..5537, 5638..5754, 5639..5755		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	3597	End	5781
GI	none	Score	70
Exons	3597..3758, 3607..3702, 3972..4166, 3973..4167, 4696..4803, 4697..4804, 4750..5088, 4794..5093, 4806..5087, 5284..5490, 5294..5491, 5638..5781, 5639..5758		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	3685	End	5099
GI	none	Score	128
Exons	3685..3804, 3687..3755, 3701..3826, 3732..3827, 3846..3878, 3864..4166, 3865..4167, 4689..4799, 4690..4815, 4696..4803, 4806..5099, 4807..5088		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-

Start	13601	End	14366
Name	OJ000130_34.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	4696	End	5063
GI	none	Score	91
Exons	4696..4800, 4697..4795, 4806..4994, 4813..4971, 4990..5052, 5001..5063		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	5276	End	5748
GI	none	Score	183
Exons	5276..5479, 5286..5477, 5287..5481, 5287..5514, 5629..5748, 5630..5740		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o3.tc	Method	TBLASTX:Cress
Start	12536	End	12888
GI	none	Score	91
Exons	12536..12715, 12583..12714, 12724..12888		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	12583	End	12892
GI	none	Score	128
Exons	12583..12744, 12584..12697, 12745..12888, 12770..12892		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	12583	End	12894
GI	none	Score	143
Exons	12583..12711, 12584..12712, 12674..12868, 12694..12894		

Seq. No.	57939	Seq. ID	OJ000130_34.0419.C8
Gene No.	121147	Strand	-
Start	13601	End	14366
Name	OJ000130_34.0419.C8.o4.gs	Method	GENSCAN
Start	13601	End	14366
GI	none	Score	.58
Exons	13601..13681, 14097..14122, 14216..14366		

Seq. No.	57940	Seq. ID	OJ000130_34.0419.C9
Gene No.	121148	Strand	+
Start	243	End	2142
Name	OJ000130_34.0419.C9.o1.gp	Method	AAT/GAP
Start	243	End	2142
GI	21604_1.R1084	Score	1255
Exons	243..462, 1534..1630, 1784..2142		
GI Descrip.	'3850579 3.0e-14 (AC005278) Strong similarity to gb_D14550 extracellular dermal glycoprotein (EDGP) precursor from Daucus		

carota. ESTs gb_H37281, gb_T44167, gb_T21813, gb_N38437, gb_Z26470, gb_R65072, gb_N76373, gb_F15470, gb_Z35182, gb_H76373, gb_Z34678 an'

Seq. No.	57940	Seq. ID	OJ000130_34.0419.C9
Gene No.	121148	Strand	+
Start	243	End	2142
Name	OJ000130_34.0419.C9.o1.gs	Method	GENSCAN
Start	265	End	2123
GI	none	Score	.5
Exons	265..435, 1534..1629, 1944..2123		

Seq. No.	57940	Seq. ID	OJ000130_34.0419.C9
Gene No.	121148	Strand	+
Start	243	End	2142
Name	OJ000130_34.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1531	End	2129
GI	none	Score	112
Exons	1531..1638, 1531..1593, 1539..1616, 1759..1842, 1760..1843, 1847..2128, 1854..2129, 1911..2129		

Seq. No.	57941	Seq. ID	OJ000130_34.0419.C10
Gene No.	121149	Strand	-
Start	416	End	4787
Name	OJ000130_34.0419.C10.o1.gs	Method	GENSCAN
Start	416	End	4787
GI	none	Score	.47
Exons	416..502, 589..774, 1007..1192, 1771..1864, 1964..2107, 2934..3286, 4023..4161, 4612..4787		

Seq. No.	57941	Seq. ID	OJ000130_34.0419.C10
Gene No.	121149	Strand	-
Start	416	End	4787
Name	OJ000130_34.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	416	End	2127
GI	none	Score	79
Exons	416..502, 586..732, 587..721, 588..728, 847..906, 874..897, 1004..1192, 1005..1193, 1042..1194, 1212..1307, 1759..1872, 1771..1860, 1930..2013, 1931..1999, 1956..2015, 1958..2014, 2014..2127, 2015..2092		

Seq. No.	57941	Seq. ID	OJ000130_34.0419.C10
Gene No.	121149	Strand	-
Start	416	End	4787
Name	OJ000130_34.0419.C10.o1.np	Method	AAT/NAP
Start	456	End	2094
GI	7484879	Score	118
Exons	456..498, 705..774, 1007..1192, 1771..1864, 1964..2094		
GI Descrip.	cullin-like protein T10P11.14.1 - Arabidopsis thaliana gi|2281115|gb|AAC78267.1|AAC78267 (AC002330) putative cullin-like 1 protein [Arabidopsis thaliana] gi|7269017|emb|CAB80750.1| (AL161494) putative cullin-like 1 protein [Arabidopsis thaliana]		

Seq. No.	57942	Seq. ID	OJ000130_34.0419.C11
Gene No.	121150	Strand	+
Start	473	End	1449

Name	OJ000130_34.0419.C11.o1.gs	Method	GENSCAN
Start	473	End	1449
GI	none	Score	.47
Exons	473..793, 1334..1449		

Seq. No.	57943	Seq. ID	OJ000130_34.0419.C12
Gene No.	121151	Strand	+
Start	963	End	2314
Name	OJ000130_34.0419.C12.o1.gs	Method	GENSCAN
Start	963	End	1683
GI	none	Score	.5
Exons	963..1025, 1531..1683		

Seq. No.	57943	Seq. ID	OJ000130_34.0419.C12
Gene No.	121151	Strand	+
Start	963	End	2314
Name	OJ000130_34.0419.C12.o1.np	Method	AAT/NAP
Start	1031	End	2314
GI	6815109	Score	129
Exons	1031..1517, 2283..2314		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	57944	Seq. ID	OJ000130_34.0419.C13
Gene No.	121152	Strand	+
Start	1	End	325
Name	OJ000130_34.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	325
GI	5852084	Score	95
Exons	1..84, 242..325		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	57945	Seq. ID	OJ000130_34.0419.C14
Gene No.	121153	Strand	+
Start	295	End	1260
Name	OJ000130_34.0419.C14.o1.gs	Method	GENSCAN
Start	295	End	1260
GI	none	Score	.52
Exons	295..396, 1192..1260		

Seq. No.	57945	Seq. ID	OJ000130_34.0419.C14
Gene No.	121154	Strand	-
Start	1	End	1759
Name	OJ000130_34.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1759
GI	5042454	Score	119
Exons	1..88, 1626..1759		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121155	Strand	+
Start	598	End	3167
Name	OJ000130_34.0419.C15.o3.np	Method	AAT/NAP
Start	598	End	1876
GI	7523512	Score	113
Exons	598..652, 1751..1876		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121155	Strand	+
Start	598	End	3167
Name	OJ000130_34.0419.C15.o2.np	Method	AAT/NAP
Start	853	End	2912
GI	5922623	Score	285
Exons	853..933, 1308..1455, 1623..1698, 2891..2912		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121155	Strand	+
Start	598	End	3167
Name	OJ000130_34.0419.C15.o1.gp	Method	AAT/GAP
Start	2546	End	2975
GI	LIB3434-023-P1-K1-B3	Score	804
Exons	2546..2975		
GI Descrip.	'3738293 3.0e-35 (AC005309) putative CCAAT-binding transcription factor subunit A (CBF-A) [Arabidopsis thaliana]'		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121155	Strand	+
Start	598	End	3167
Name	OJ000130_34.0419.C15.o4.np	Method	AAT/NAP
Start	2571	End	3063
GI	3738293	Score	398
Exons	2571..3063		
GI Descrip.	(AC005309) putative CCAAT-box binding trancription factor [Arabidopsis thaliana]		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121155	Strand	+
Start	598	End	3167
Name	OJ000130_34.0419.C15.o2.gs	Method	GENSCAN
Start	2634	End	3167
GI	none	Score	.98
Exons	2634..3167		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121156	Strand	+
Start	10585	End	11067
Name	OJ000130_34.0419.C15.o5.np	Method	AAT/NAP
Start	10585	End	11067
GI	7443520	Score	318
Exons	10585..11067		
GI Descrip.	transcription factor, CCAAT-binding, chain A - Arabidopsis thaliana gi|2244810|emb|CAB10233.1| (Z97336) CCAAT-binding transcription factor subunit A(CBF-A) [Arabidopsis thaliana] gi|7268160|emb|CAB78496.1| (AL161539) CCAAT-binding transcription factor subunit A(CBF-A) [Arabidopsis thaliana]		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121157	Strand	-
Start	1	End	1426
Name	OJ000130_34.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1426

GI	5042454	Score	1499
Exons	1..794, 850..956, 1287..1426		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121157	Strand	-
Start	1	End	1426
Name	OJ000130_34.0419.C15.o1.gs	Method	GENSCAN
Start	9	End	1368
GI	none	Score	.84
Exons	9..794, 850..1059, 1291..1368		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121158	Strand	
Start	2712	End	10920
Name	OJ000130_34.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	2712	End	10920
GI	none	Score	110
Exons	2712..2789, 2726..2788, 2786..2995, 2790..3014, 10638..10691, 10648..10692, 10701..10907, 10702..10920		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121158	Strand	
Start	2712	End	10920
Name	OJ000130_34.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	2727	End	10914
GI	none	Score	367
Exons	2727..3005, 2729..2995, 10647..10784, 10647..10907, 10648..10914		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121158	Strand	
Start	2712	End	10920
Name	OJ000130_34.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	2729	End	10920
GI	none	Score	391
Exons	2729..2971, 2730..3014, 10647..10784, 10647..10904, 10648..10920		

Seq. No.	57946	Seq. ID	OJ000130_34.0419.C15
Gene No.	121158	Strand	
Start	2712	End	10920
Name	OJ000130_34.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	2730	End	10920
GI	none	Score	386
Exons	2730..3014, 2732..2995, 10647..10784, 10647..10907, 10648..10920		

Seq. No.	57947	Seq. ID	OJ000130_34.0419.C16
Gene No.	121159	Strand	+
Start	123	End	1573
Name	OJ000130_34.0419.C16.o1.gs	Method	GENSCAN
Start	123	End	1573
GI	none	Score	.44
Exons	123..152, 334..410, 1450..1573		

Seq. No.	57948	Seq. ID	OJ000130_34.0419.C17
Gene No.	121160	Strand	+
Start	459	End	1152
Name	OJ000130_34.0419.C17.o1.np	Method	AAT/NAP

Start	459	End	1152
GI	4204303	Score	144
Exons	459..600, 1034..1152		
GI Descrip.	(AC003027) lcl|prt_seq No definition line found [Arabidopsis thaliana]		

Seq. No.	57948	Seq. ID	OJ000130_34.0419.C17
Gene No.	121160	Strand	+
Start	459	End	1152
Name	OJ000130_34.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	1036	End	1152
GI	none	Score	178
Exons	1036..1152, 1041..1151		

Seq. No.	57948	Seq. ID	OJ000130_34.0419.C17
Gene No.	121160	Strand	+
Start	459	End	1152
Name	OJ000130_34.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1038	End	1152
GI	none	Score	179
Exons	1038..1145, 1039..1152		

Seq. No.	57949	Seq. ID	OJ000130_34.0419.C20
Gene No.	121161	Strand	+
Start	610	End	1108
Name	OJ000130_34.0419.C20.o1.gs	Method	GENSCAN
Start	610	End	1108
GI	none	Score	.93
Exons	610..855, 1049..1108		

Seq. No.	57949	Seq. ID	OJ000130_34.0419.C20
Gene No.	121162	Strand	-
Start	610	End	937
Name	OJ000130_34.0419.C20.o1.gp	Method	AAT/GAP
Start	610	End	937
GI	none	Score	589
Exons	610..937		

Seq. No.	57949	Seq. ID	OJ000130_34.0419.C20
Gene No.	121163	Strand	-
Start	2367	End	2771
Name	OJ000130_34.0419.C20.o2.gs	Method	GENSCAN
Start	2367	End	2771
GI	none	Score	.99
Exons	2367..2771		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121164	Strand	+
Start	1201	End	4120
Name	OJ000130_34.0419.C21.o2.gs	Method	GENSCAN
Start	1201	End	4120
GI	none	Score	.67
Exons	1201..1207, 1468..1569, 1968..2234, 3085..3519, 3707..3785, 3992..4068, 4110..4120		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121165	Strand	+

Start	9737	End	10365
Name	OJ000130_34.0419.C21.o4.gp	Method	AAT/GAP
Start	9737	End	10365
GI	none	Score	1161
Exons	9737..10365		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121166	Strand	-
Start	3080	End	3573
Name	OJ000130_34.0419.C21.o2.gp	Method	AAT/GAP
Start	3080	End	3573
GI	none	Score	928
Exons	3080..3573		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121167	Strand	-
Start	4872	End	14809
Name	OJ000130_34.0419.C21.o3.gp	Method	AAT/GAP
Start	4707	End	5031
GI	3761588	Score	580
Exons	4707..5031		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121167	Strand	-
Start	4872	End	14809
Name	OJ000130_34.0419.C21.o3.gs	Method	GENSCAN
Start	4872	End	12016
GI	none	Score	.49
Exons	4872..5068, 6035..7379, 7700..7730, 7995..8158, 8578..8717, 8745..8805, 9200..9256, 9736..9930, 10420..10539, 10642..10704, 11249..11821, 11906..12016		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121167	Strand	-
Start	4872	End	14809
Name	OJ000130_34.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	9931	End	11368
GI	none	Score	57
Exons	9931..10026, 9940..10077, 10044..10076, 10072..10098, 10073..10114, 10182..10319, 10187..10327, 10192..10329, 10258..10329, 10409..10450, 10415..10498, 10416..10499, 10468..10500, 10623..10703, 10640..10702, 10642..10704, 10643..10705, 11243..11332, 11244..11333, 11330..11368		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121167	Strand	-
Start	4872	End	14809
Name	OJ000130_34.0419.C21.o1.np	Method	AAT/NAP
Start	10219	End	14587
GI	6688926	Score	300
Exons	10219..10300, 10394..10547, 11263..11349, 11746..11821, 11906..12021, 12629..12710, 13246..13316, 14530..14587		
GI Descrip.	(AJ251365) VAP27 [Nicotiana plumbaginifolia]		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121167	Strand	-
Start	4872	End	14809

Name	OJ000130_34.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	11378	End	14629
GI	none	Score	116
Exons	11378..11488, 11385..11486, 11426..11494, 11427..11495, 11447..11491, 11496..11543, 11540..11821, 11549..11815, 11652..11819, 11900..12022, 11911..12024, 11912..12022, 11913..12023, 12625..12708, 12630..12713, 12630..12707, 13245..13316, 13246..13335, 13247..13324, 14525..14629, 14531..14578		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121167	Strand	-
Start	4872	End	14809
Name	OJ000130_34.0419.C21.o5.gp	Method	AAT/GAP
Start	11905	End	14809
GI	32228_1.R1084	Score	982
Exons	11905..12021, 12629..12710, 13246..13316, 14530..14809		
GI Descrip.	'3063471 4.0e-29 (AC003981) F22O13.33 [Arabidopsis thaliana]'		

Seq. No.	57950	Seq. ID	OJ000130_34.0419.C21
Gene No.	121167	Strand	-
Start	4872	End	14809
Name	OJ000130_34.0419.C21.o4.gs	Method	GENSCAN
Start	13063	End	14578
GI	none	Score	.61
Exons	13063..13130, 14530..14578		

Seq. No.	57951	Seq. ID	OJ000130_34.0419.C22
Gene No.	121168	Strand	-
Start	3596	End	5243
Name	OJ000130_34.0419.C22.o2.gs	Method	GENSCAN
Start	3596	End	4870
GI	none	Score	.98
Exons	3596..4870		

Seq. No.	57951	Seq. ID	OJ000130_34.0419.C22
Gene No.	121168	Strand	-
Start	3596	End	5243
Name	OJ000130_34.0419.C22.o1.np	Method	AAT/NAP
Start	3602	End	5243
GI	3850579	Score	407
Exons	3602..4773, 5162..5243		
GI Descrip.	(AC005278) Strong similarity to gb|D14550 extracellular dermal glycoprotein (EDGP) precursor from Daucus carota. ESTs gb|H37281, gb|T44167, gb|T21813, gb|N38437, gb|Z26470, gb|R65072, gb|N76373, gb|F15470, gb|Z35182, gb|H76373, gb|Z34678 an...		

Seq. No.	57951	Seq. ID	OJ000130_34.0419.C22
Gene No.	121168	Strand	-
Start	3596	End	5243
Name	OJ000130_34.0419.C22.o2.np	Method	AAT/NAP
Start	3602	End	4864
GI	3850580	Score	419
Exons	3602..4864		
GI Descrip.	(AC005278) Strong similarity to gb|D14550 extracellular dermal glycoprotein (EDGP) precursor from Daucus carota. ESTs gb|84105		

and gb|AI100071 come from this gene. [Arabidopsis thaliana]

Seq. No.	57951	Seq. ID	OJ000130_34.0419.C22
Gene No.	121168	Strand	-
Start	3596	End	5243
Name	OJ000130_34.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	3647	End	4528
GI	none	Score	66
Exons	3647..3733, 3818..3922, 3971..4054, 4061..4132, 4133..4186, 4223..4396, 4430..4528		

Seq. No.	57951	Seq. ID	OJ000130_34.0419.C22
Gene No.	121168	Strand	-
Start	3596	End	5243
Name	OJ000130_34.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	3977	End	4771
GI	none	Score	57
Exons	3977..4048, 4058..4132, 4199..4246, 4211..4246, 4250..4375, 4251..4322, 4376..4471, 4389..4472, 4455..4490, 4703..4771		

Seq. No.	57952	Seq. ID	OJ000130_34.0419.C25
Gene No.	121169	Strand	+
Start	161	End	410
Name	OJ000130_34.0419.C25.o1.gs	Method	GENSCAN
Start	161	End	410
GI	none	Score	.89
Exons	161..182, 304..410		

Seq. No.	57953	Seq. ID	OJ000130_34.0419.C27
Gene No.	121170	Strand	+
Start	61	End	411
Name	OJ000130_34.0419.C27.o1.gs	Method	GENSCAN
Start	61	End	411
GI	none	Score	.64
Exons	61..213, 277..411		

Seq. No.	57953	Seq. ID	OJ000130_34.0419.C27
Gene No.	121171	Strand	-
Start	1	End	120
Name	OJ000130_34.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	120
GI	54240_1.R1084	Score	240
Exons	1..120		
GI Descrip.	'4454019/emb|CAA23072| 6.0e-16 (AL035396) SRG1-like protein [Arabidopsis thaliana]'		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121172	Strand	+
Start	415	End	5951
Name	OJ000130_34.0419.C28.o1.gp	Method	AAT/GAP
Start	415	End	2003
GI	uC-osflcyp055e02b1	Score	682
Exons	415..504, 1507..1744, 1961..2003		
GI Descrip.	'2384675 8.0e-33 (AF012659) putative potassium transporter AtKT4p [Arabidopsis thaliana]'		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28

Gene No.	121172	Strand	+
Start	415	End	5951
Name	OJ000130_34.0419.C28.o1.gs	Method	GENSCAN
Start	463	End	5951
GI	none	Score	.57
Exons	463..504, 1507..1744, 1961..2209, 2316..2366, 3319..3371, 4010..4301, 4428..5447, 5533..5572, 5657..5696, 5844..5951		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121172	Strand	+
Start	415	End	5951
Name	OJ000130_34.0419.C28.o1.np	Method	AAT/NAP
Start	1483	End	5512
GI	7108599	Score	2636
Exons	1483..1744, 1961..2209, 2316..2363, 2935..3201, 3319..3371, 3850..3964, 4047..4301, 4428..5512		
GI Descrip.	(AF129479) HAK2 [Hordeum vulgare]		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	463	End	1718
GI	none	Score	329
Exons	463..504, 1492..1716, 1509..1718, 1510..1716		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	1509	End	5521
GI	none	Score	95
Exons	1509..1718, 1510..1764, 1533..1607, 1653..1745, 1947..2051, 1960..2055, 2097..2207, 2098..2208, 2943..3203, 2969..3211, 3314..3355, 3315..3377, 3844..3924, 3873..3917, 4036..4260, 4043..4303, 4043..4294, 4057..4302, 4424..5026, 4426..4956, 4892..4984, 5279..5515, 5323..5499, 5396..5521		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o5.ts	Method	TBLASTX:Soybean
Start	1531	End	2208
GI	none	Score	288
Exons	1531..1740, 1533..1742, 1651..1743, 1939..2055, 1950..2048, 2026..2208, 2031..2207		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o5.tm	Method	TBLASTX:Maize
Start	1947	End	2196
GI	none	Score	161
Exons	1947..2168, 1959..2159, 1960..2169, 2164..2193, 2169..2195, 2170..2196		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28

Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o2.tw	Method	TBLASTX:Wheat
Start	1956	End	2356
GI	none	Score	175
Exons	1956..2102, 1960..2157, 2026..2208, 2097..2207, 2100..2213, 2273..2356		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o6.ts	Method	TBLASTX:Soybean
Start	2946	End	3383
GI	none	Score	264
Exons	2946..3158, 2957..3154, 3279..3383, 3315..3377		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	2988	End	4165
GI	none	Score	283
Exons	2988..3071, 2993..3202, 2994..3203, 2995..3201, 2996..3202, 3309..3377, 3314..3373, 3315..3377, 3317..3430, 3844..3963, 3849..3995, 4042..4164, 4043..4165		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o3.ts	Method	TBLASTX:Soybean
Start	3159	End	4305
GI	none	Score	61
Exons	3159..3203, 3835..3963, 4042..4305, 4043..4303		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	4165	End	6100
GI	none	Score	237
Exons	4165..4305, 4166..4303, 4167..4304, 4426..4755, 4427..4756, 4691..4759, 4751..4780, 4755..4793, 4757..4789, 4779..4835, 4780..5031, 4781..5032, 4781..5035, 4855..5052, 4872..5072, 5049..5156, 5050..5493, 5075..5536, 5080..5229, 5087..5530, 5948..6040, 5999..6037, 6024..6074, 6074..6100		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	4423	End	5023
GI	none	Score	680
Exons	4423..4956, 4424..5023, 4742..4993		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104

Name	OJ000130_34.0419.C28.o2.ts	Method	TBLASTX:Soybean
Start	5111	End	5515
GI	none	Score	98
Exons	5111..5248, 5240..5515, 5323..5514		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	5234	End	5515
GI	none	Score	235
Exons	5234..5515, 5267..5509, 5365..5511		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o2.gs	Method	GENSCAN
Start	6565	End	7051
GI	none	Score	.83
Exons	6565..6783, 6875..7051		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o4.tm	Method	TBLASTX:Maize
Start	6588	End	6935
GI	none	Score	193
Exons	6588..6782, 6596..6784, 6601..6783, 6872..6934, 6876..6935		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o2.np	Method	AAT/NAP
Start	6601	End	7104
GI	4262148	Score	310
Exons	6601..6783, 6875..7104		
GI Descrip.	(AC005275) predicted protein of unknown function [Arabidopsis thaliana]		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o4.ts	Method	TBLASTX:Soybean
Start	6601	End	7052
GI	none	Score	106
Exons	6601..6783, 6635..6784, 6848..7048, 6872..7051, 6876..7052		

Seq. No.	57954	Seq. ID	OJ000130_34.0419.C28
Gene No.	121173	Strand	-
Start	6565	End	7104
Name	OJ000130_34.0419.C28.o2.tc	Method	TBLASTX:Cress
Start	6697	End	7052
GI	none	Score	49
Exons	6697..6783, 6707..6784, 6872..7051, 6876..7052		

Seq. No.	57955	Seq. ID	OJ000130_34.0419.C29
Gene No.	121174	Strand	-

Start	1	End	2718
Name	OJ000130_34.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	2718
GI	4262148	Score	1139
Exons	1..51, 216..444, 871..981, 1053..1316, 1768..2009, 2083..2219, 2696..2718		
GI Descrip.	(AC005275) predicted protein of unknown function [Arabidopsis thaliana]		

Seq. No.	57955	Seq. ID	OJ000130_34.0419.C29
Gene No.	121174	Strand	-
Start	1	End	2718
Name	OJ000130_34.0419.C29.o1.gs	Method	GENSCAN
Start	25	End	2364
GI	none	Score	.77
Exons	25..108, 267..444, 1053..1316, 1768..2009, 2083..2364		

Seq. No.	57955	Seq. ID	OJ000130_34.0419.C29
Gene No.	121174	Strand	-
Start	1	End	2718
Name	OJ000130_34.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	77	End	1866
GI	none	Score	125
Exons	77..133, 229..435, 229..435, 237..443, 865..981, 866..982, 878..982, 913..984, 1023..1337, 1046..1231, 1051..1314, 1765..1866		

Seq. No.	57955	Seq. ID	OJ000130_34.0419.C29
Gene No.	121174	Strand	-
Start	1	End	2718
Name	OJ000130_34.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	83	End	447
GI	none	Score	81
Exons	83..136, 84..134, 84..143, 219..443, 220..444, 220..447		

Seq. No.	57955	Seq. ID	OJ000130_34.0419.C29
Gene No.	121174	Strand	-
Start	1	End	2718
Name	OJ000130_34.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	889	End	1183
GI	none	Score	119
Exons	889..981, 890..982, 890..982, 1023..1181, 1046..1183, 1051..1182		

Seq. No.	57955	Seq. ID	OJ000130_34.0419.C29
Gene No.	121174	Strand	-
Start	1	End	2718
Name	OJ000130_34.0419.C29.o3.tm	Method	TBLASTX:Maize
Start	1201	End	1908
GI	none	Score	137
Exons	1201..1317, 1207..1317, 1209..1337, 1755..1901, 1765..1908, 1769..1816, 1855..1905		

Seq. No.	57955	Seq. ID	OJ000130_34.0419.C29
Gene No.	121174	Strand	-
Start	1	End	2718
Name	OJ000130_34.0419.C29.o2.ts	Method	TBLASTX:Soybean
Start	2083	End	2341

GI	none	Score	147
Exons	2083..2163, 2084..2311, 2084..2341, 2211..2327		

Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121175	Strand	+
Start	532	End	6085
Name	OJ000130_34.0419.C30.o1.gs	Method	GENSCAN
Start	532	End	5545
GI	none	Score	.44
Exons	532..676, 813..913, 1048..1103, 1155..1316, 1341..1526, 2207..2299, 2934..3106, 3820..3918, 4196..4293, 4525..4733, 5053..5332, 5422..5545		

Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121175	Strand	+
Start	532	End	6085
Name	OJ000130_34.0419.C30.o1.gp	Method	AAT/GAP
Start	2746	End	5096
GI	2427494	Score	675
Exons	2746..2858, 3307..3368, 4525..4733, 5053..5096		

Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121175	Strand	+
Start	532	End	6085
Name	OJ000130_34.0419.C30.o2.np	Method	AAT/NAP
Start	3306	End	6085
GI	82263	Score	710
Exons	3306..3336, 4567..4733, 5053..5332, 5422..5497, 6046..6085		
GI Descrip.	ubiquinol--cytochrome-c reductase (EC 1.10.2.2) cytochrome c1 precursor (clone pC(1)3II) - potato		

Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121175	Strand	+
Start	532	End	6085
Name	OJ000130_34.0419.C30.o2.gp	Method	AAT/GAP
Start	5111	End	5493
GI	14988_1_R1084	Score	549
Exons	5111..5332, 5422..5493		
GI Descrip.	'82263/pir||S20014 4.0e-98 ubiquinol--cytochrome-c reductase (EC 1.10.2.2) cytochrome c1 precursor (clone pC(1)3II) - potato'		

Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121176	Strand	-
Start	1	End	2803
Name	OJ000130_34.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	2803
GI	7303195	Score	248
Exons	1..30, 123..155, 353..431, 575..596, 824..896, 1293..1475, 2696..2803		
GI Descrip.	(AE003815) CG8613 gene product [Drosophila melanogaster]		

Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121177	Strand	
Start	4529	End	5532
Name	OJ000130_34.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	4529	End	5496
GI	none	Score	246

Exons	4529..4573, 4575..4733, 4582..4734, 5054..5338, 5066..5332, 5419..5496, 5419..5490, 5420..5491		
Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121177	Strand	
Start	4529	End	5532
Name	OJ000130_34.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	4567	End	5527
GI	none	Score	217
Exons	4567..4734, 4572..4739, 4587..4733, 5053..5328, 5054..5338, 5415..5492, 5419..5496, 5420..5527, 5429..5491		
Seq. No.	57956	Seq. ID	OJ000130_34.0419.C30
Gene No.	121177	Strand	
Start	4529	End	5532
Name	OJ000130_34.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	4620	End	5532
GI	none	Score	185
Exons	4620..4733, 4621..4734, 5053..5328, 5054..5338, 5419..5532, 5420..5506, 5430..5522		
Seq. No.	57957	Seq. ID	OJ000130_36.0419.C1
Gene No.	121178	Strand	-
Start	1	End	654
Name	OJ000130_36.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	654
GI	2498930	Score	739
Exons	1..418, 586..654		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	57957	Seq. ID	OJ000130_36.0419.C1
Gene No.	121178	Strand	-
Start	1	End	654
Name	OJ000130_36.0419.C1.o1.gs	Method	GENSCAN
Start	116	End	645
GI	none	Score	47
Exons	116..418, 586..645		
Seq. No.	57958	Seq. ID	OJ000130_36.0419.C2
Gene No.	121179	Strand	+
Start	6206	End	6372
Name	OJ000130_36.0419.C2.o1.gp	Method	AAT/GAP
Start	6206	End	6372
GI	6756_1.R1084	Score	240
Exons	6206..6372		
GI Descrip.	'1351357/sp|P48502|UCR6_SOLTU 2.0e-24 UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX 14 KD PROTEIN (CR14) >gi_633681_emb_CAA55863_ (X79276) ubiquinol--cytochrome c reductase [Solanum tuberosum]'		
Seq. No.	57959	Seq. ID	OJ000130_36.0419.C3
Gene No.	121180	Strand	-
Start	287	End	7228
Name	OJ000130_36.0419.C3.o1.np	Method	AAT/NAP
Start	250	End	551
GI	6539588	Score	234
Exons	250..551		

GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No.	57959	Seq. ID	OJ000130_36.0419.C3
Gene No.	121180	Strand	-
Start	287	End	7228
Name	OJ000130_36.0419.C3.o1.gs	Method	GENSCAN
Start	287	End	7228
GI	none	Score	.42
Exons	287..525, 3216..3402, 3750..3771, 4950..5038, 5327..5532, 7183..7228		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o1.gs	Method	GENSCAN
Start	765	End	1566
GI	none	Score	.61
Exons	765..954, 1058..1566		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o1.np	Method	AAT/NAP
Start	789	End	10400
GI	6689616	Score	403
Exons	789..954, 1058..1456, 5402..5448, 10218..10400		
GI Descrip.	(AJ012301) proline-rich protein [Zea mays]		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o1.gp	Method	AAT/GAP
Start	805	End	1229
GI	2431531	Score	408
Exons	805..954, 1058..1229		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	843	End	10312
GI	none	Score	71
Exons	843..956, 894..968, 1056..1163, 1057..1164, 1179..1271, 1180..1272, 1345..1389, 9732..9872, 9810..9872, 9979..10086, 9980..10087, 10102..10206, 10103..10195, 10219..10245, 10268..10312		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	867	End	10207
GI	none	Score	85
Exons	867..956, 894..956, 1063..1164, 1065..1163, 1179..1280, 1180..1281, 9810..9872, 9986..10087, 9988..10086, 10102..10203, 10103..10207		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o2.gs	Method	GENSCAN
Start	3693	End	7873
GI	none	Score	.66
Exons	3693..3727, 3807..3878, 3958..4058, 5325..5451, 5985..6121, 6160..6237, 7127..7147, 7806..7873		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o3.gs	Method	GENSCAN
Start	9705	End	10489
GI	none	Score	.73
Exons	9705..9870, 9981..10020, 10069..10489		

Seq. No.	57960	Seq. ID	OJ000130_36.0419.C4
Gene No.	121181	Strand	+
Start	765	End	10489
Name	OJ000130_36.0419.C4.o2.gp	Method	AAT/GAP
Start	9728	End	10152
GI	2431531	Score	435
Exons	9728..9870, 9981..10152		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121182	Strand	+
Start	1	End	4527
Name	OJ000130_36.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	4527
GI	7304247	Score	18
Exons	1..112, 2912..2959, 3124..3293, 4493..4527		
GI Descrip.	(AE003842) CG11084 gene product [Drosophila melanogaster]		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121182	Strand	+
Start	1	End	4527
Name	OJ000130_36.0419.C5.o1.gs	Method	GENSCAN
Start	629	End	902
GI	none	Score	.89
Exons	629..663, 764..902		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121183	Strand	+
Start	6669	End	9382
Name	OJ000130_36.0419.C5.o1.gp	Method	AAT/GAP
Start	6605	End	7335
GI	25600_5.R1084	Score	741
Exons	6605..6819, 6922..7139, 7162..7335		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121183	Strand	+
Start	6669	End	9382
Name	OJ000130_36.0419.C5.o2.np	Method	AAT/NAP
Start	6654	End	9382

GI	6689616	Score	353
Exons	6654..6819, 6922..7316, 9354..9382		
GI Descrip.	(AJ012301) proline-rich protein [Zea mays]		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121183	Strand	+
Start	6669	End	9382
Name	OJ000130_36.0419.C5.o3.gs	Method	GENSCAN
Start	6669	End	7430
GI	none	Score	1
Exons	6669..6819, 6922..7430		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121183	Strand	+
Start	6669	End	9382
Name	OJ000130_36.0419.C5.o2.gp	Method	AAT/GAP
Start	7130	End	7673
GI	3763517	Score	971
Exons	7130..7673		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121184	Strand	-
Start	2908	End	4741
Name	OJ000130_36.0419.C5.o2.gs	Method	GENSCAN
Start	2908	End	4741
GI	none	Score	.82
Exons	2908..3245, 3791..3872, 4727..4741		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121185	Strand	-
Start	7804	End	8237
Name	OJ000130_36.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	6759	End	7253
GI	none	Score	79
Exons	6759..6836, 6767..6820, 6920..7027, 6921..7028, 7043..7147, 7044..7136, 7160..7186, 7209..7253		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121185	Strand	-
Start	7804	End	8237
Name	OJ000130_36.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	6759	End	7148
GI	none	Score	91
Exons	6759..6821, 6767..6820, 6781..6822, 6927..7028, 6928..6948, 6929..7027, 7043..7144, 7044..7148		

Seq. No.	57961	Seq. ID	OJ000130_36.0419.C5
Gene No.	121185	Strand	-
Start	7804	End	8237
Name	OJ000130_36.0419.C5.o4.gs	Method	GENSCAN
Start	7804	End	8237
GI	none	Score	.93
Exons	7804..7895, 8162..8237		

Seq. No.	57962	Seq. ID	OJ000130_36.0419.C6
Gene No.	121186	Strand	+
Start	284	End	1827

Name	OJ000130_36.0419.C6.o1.gs	Method	GENSCAN
Start	284	End	1809
GI	none	Score	.79
Exons	284..554, 1041..1142, 1201..1299, 1637..1809		

Seq. No.	57962	Seq. ID	OJ000130_36.0419.C6
Gene No.	121186	Strand	+
Start	284	End	1827
Name	OJ000130_36.0419.C6.o1.np	Method	AAT/NAP
Start	1377	End	1827
GI	7523705	Score	140
Exons	1377..1556, 1637..1827		
GI Descrip.	(AC011001) Similar to maize transposon mudrA protein [Arabidopsis thaliana]		

Seq. No.	57963	Seq. ID	OJ000130_36.0419.C7
Gene No.	121187	Strand	+
Start	1	End	857
Name	OJ000130_36.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	857
GI	479357	Score	372
Exons	1..857		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi|22375|emb|CAA44165| (X62251) ORF [Zea mays]		

Seq. No.	57963	Seq. ID	OJ000130_36.0419.C7
Gene No.	121187	Strand	+
Start	1	End	857
Name	OJ000130_36.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	12	End	676
GI	none	Score	210
Exons	12..290, 327..449, 485..676		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121188	Strand	+
Start	1101	End	10213
Name	OJ000130_36.0419.C8.o1.gs	Method	GENSCAN
Start	1101	End	10213
GI	none	Score	.61
Exons	1101..1444, 1908..2046, 2305..2562, 2929..3338, 5833..6018, 9203..9292, 9581..9731, 9914..10213		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121188	Strand	+
Start	1101	End	10213
Name	OJ000130_36.0419.C8.o1.np	Method	AAT/NAP
Start	2375	End	10207
GI	7485070	Score	439
Exons	2375..2562, 2929..3338, 5833..6022, 7503..7605, 9910..10207		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2244904|emb|CAB10325.1| (Z97339) hypothetical protein [Arabidopsis thaliana] gi|7268294|emb|CAB78589.1| (AL161541) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121188	Strand	+
Start	1101	End	10213

Name	OJ000130_36.0419.C8.o1.gp	Method	AAT/GAP
Start	3114	End	3682
GI	uC-osf1cyp064c01b1	Score	830
Exons	3114..3604, 3629..3682		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121188	Strand	+
Start	1101	End	10213
Name	OJ000130_36.0419.C8.o2.gp	Method	AAT/GAP
Start	5372	End	5811
GI	uC-osroM202022d09b1	Score	860
Exons	5372..5811		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121189	Strand	+
Start	12180	End	17478
Name	OJ000130_36.0419.C8.o2.np	Method	AAT/NAP
Start	12174	End	17478
GI	6689616	Score	357
Exons	12174..12339, 13036..13409, 13443..13826, 17453..17478		
GI Descrip.	(AJ012301) proline-rich protein [Zea mays]		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121189	Strand	+
Start	12180	End	17478
Name	OJ000130_36.0419.C8.o2.gs	Method	GENSCAN
Start	12180	End	13839
GI	none	Score	.66
Exons	12180..12339, 13036..13198, 13212..13839		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121189	Strand	+
Start	12180	End	17478
Name	OJ000130_36.0419.C8.o3.gs	Method	GENSCAN
Start	15221	End	15400
GI	none	Score	1
Exons	15221..15400		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121190	Strand	+
Start	18758	End	22152
Name	OJ000130_36.0419.C8.o5.gs	Method	GENSCAN
Start	18758	End	22108
GI	none	Score	.72
Exons	18758..18880, 19832..20003, 20012..20200, 21146..21259, 21354..22108		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121190	Strand	+
Start	18758	End	22152
Name	OJ000130_36.0419.C8.o3.np	Method	AAT/NAP
Start	21136	End	22152
GI	6587832	Score	384

Exons	21136..21259, 21354..21761, 21789..22152		
GI Descrip.	(AC006551) Similar to LeOPT1 [Lycopersicon esculentum] [Arabidopsis thaliana]		
Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121191	Strand	-
Start	10922	End	10980
Name	OJ000130_36.0419.C8.o3.gp	Method	AAT/GAP
Start	10922	End	10980
GI	2312838	Score	73
Exons	10922..10980		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121192	Strand	-
Start	17468	End	18542
Name	OJ000130_36.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	12288	End	13258
GI	none	Score	66
Exons	12288..12341, 13040..13063, 13041..13064, 13077..13238, 13116..13166, 13145..13258		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121192	Strand	-
Start	17468	End	18542
Name	OJ000130_36.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	13031	End	13781
GI	none	Score	43
Exons	13031..13063, 13044..13076, 13068..13238, 13122..13163, 13145..13237, 13253..13294, 13254..13292, 13370..13402, 13377..13403, 13472..13534, 13475..13495, 13578..13649, 13596..13646, 13609..13644, 13688..13768, 13689..13781		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121192	Strand	-
Start	17468	End	18542
Name	OJ000130_36.0419.C8.o4.gs	Method	GENSCAN
Start	17468	End	18542
GI	none	Score	.83
Exons	17468..17612, 18445..18542		

Seq. No.	57964	Seq. ID	OJ000130_36.0419.C8
Gene No.	121193	Strand	
Start	21380	End	21982
Name	OJ000130_36.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	21380	End	21982
GI	none	Score	62
Exons	21380..21469, 21533..21619, 21668..21766, 21704..21760, 21803..21982, 21842..21982		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121194	Strand	+
Start	1	End	491
Name	OJ000130_36.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	488
GI	6587834	Score	441

Exons	1..488		
GI Descrip.	(AC006551) Similar to LeOPT1 [Lycopersicon esculentum] [Arabidopsis thaliana]		
Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121194	Strand	+
Start	1	End	491
Name	OJ000130_36.0419.C9.o1.gs	Method	GENSCAN
Start	24	End	491
GI	none	Score	1
Exons	24..491		
Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121195	Strand	+
Start	4472	End	7808
Name	OJ000130_36.0419.C9.o2.gs	Method	GENSCAN
Start	4472	End	7353
GI	none	Score	.54
Exons	4472..4520, 5505..5706, 6167..6331, 6443..6571, 6648..6802, 6913..7218, 7241..7353		
Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121195	Strand	+
Start	4472	End	7808
Name	OJ000130_36.0419.C9.o1.gp	Method	AAT/GAP
Start	7113	End	7808
GI	3548940	Score	928
Exons	7113..7808		
Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121196	Strand	+
Start	14386	End	25291
Name	OJ000130_36.0419.C9.o4.gs	Method	GENSCAN
Start	14386	End	15491
GI	none	Score	1
Exons	14386..14560, 14851..15491		
Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121196	Strand	+
Start	14386	End	25291
Name	OJ000130_36.0419.C9.o2.np	Method	AAT/NAP
Start	14395	End	25291
GI	6689616	Score	372
Exons	14395..14560, 14851..15318, 20472..20547, 23613..23697, 24923..24962, 25047..25291		
GI Descrip.	(AJ012301) proline-rich protein [Zea mays]		
Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121196	Strand	+
Start	14386	End	25291
Name	OJ000130_36.0419.C9.o3.np	Method	AAT/NAP
Start	23792	End	25291
GI	7486861	Score	699
Exons	23792..24157, 24206..25291		
GI Descrip.	hypothetical protein T11I11.180 - Arabidopsis thaliana gi|5123711|emb|CAB45455.1| (AL079347) putative protein [Arabidopsis thaliana] gi|7270445|emb|CAB80211.1| (AL161586)		

putative protein [Arabidopsis thaliana]

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121196	Strand	+
Start	14386	End	25291
Name	OJ000130_36.0419.C9.o6.gs	Method	GENSCAN
Start	23813	End	25006
GI	none	Score	.92
Exons	23813..25006		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121197	Strand	-
Start	9090	End	12473
Name	OJ000130_36.0419.C9.o3.gs	Method	GENSCAN
Start	9090	End	12473
GI	none	Score	.79
Exons	9090..9118, 9959..10133, 11003..11074, 11153..11335, 12309..12473		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121198	Strand	-
Start	15131	End	15718
Name	OJ000130_36.0419.C9.o2.gp	Method	AAT/GAP
Start	15131	End	15718
GI	none	Score	1051
Exons	15131..15718		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121199	Strand	-
Start	16017	End	22562
Name	OJ000130_36.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	99	End	441
GI	none	Score	187
Exons	99..251, 113..154, 209..250, 338..403, 345..386, 427..441		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121199	Strand	-
Start	16017	End	22562
Name	OJ000130_36.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	153	End	403
GI	none	Score	169
Exons	153..344, 156..287, 330..386, 335..403		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121199	Strand	-
Start	16017	End	22562
Name	OJ000130_36.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	14849	End	15356
GI	none	Score	129
Exons	14849..14944, 14850..14945, 14991..15056, 14996..15055, 15083..15154, 15084..15164, 15255..15326, 15333..15356		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121199	Strand	-
Start	16017	End	22562
Name	OJ000130_36.0419.C9.o5.gs	Method	GENSCAN
Start	16017	End	22562

GI	none	Score	.48
Exons	16017..16091, 16428..16626, 16740..16760, 17003..17137, 18060..18175, 22542..22562		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121199	Strand	-
Start	16017	End	22562
Name	OJ000130_36.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	18775	End	19029
GI	none	Score	106
Exons	18775..19029, 18832..19026		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121200	Strand	
Start	24053	End	24637
Name	OJ000130_36.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	24053	End	24637
GI	none	Score	87
Exons	24053..24160, 24235..24309, 24236..24484, 24410..24637, 24514..24636		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121200	Strand	
Start	24053	End	24637
Name	OJ000130_36.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	24110	End	24526
GI	none	Score	53
Exons	24110..24157, 24229..24285, 24232..24309, 24236..24526, 24380..24526		

Seq. No.	57965	Seq. ID	OJ000130_36.0419.C9
Gene No.	121200	Strand	
Start	24053	End	24637
Name	OJ000130_36.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	24236	End	24604
GI	none	Score	290
Exons	24236..24604		

Seq. No.	57966	Seq. ID	OJ000130_33.0417.C5
Gene No.	121201	Strand	+
Start	128	End	487
Name	OJ000130_33.0417.C5.o1.gs	Method	GENSCAN
Start	128	End	487
GI	none	Score	.79
Exons	128..184, 254..388, 482..487		

Seq. No.	57966	Seq. ID	OJ000130_33.0417.C5
Gene No.	121202	Strand	+
Start	1784	End	4294
Name	OJ000130_33.0417.C5.o3.gs	Method	GENSCAN
Start	1784	End	4213
GI	none	Score	.89
Exons	1784..1944, 2083..2180, 2310..2449, 3249..3279, 3678..3781, 4092..4213		

Seq. No.	57966	Seq. ID	OJ000130_33.0417.C5
Gene No.	121202	Strand	+

Start	1784	End	4294
Name	OJ000130_33.0417.C5.o1.gp	Method	AAT/GAP
Start	1791	End	4294
GI	7928_1.R1084	Score	1083
Exons	1791..1944, 2083..2180, 2310..2449, 3249..3279, 3678..3781, 4092..4226, 4270..4294		
GI Descrip.	'2947060 1.0e-102 (AC002521) putative membrane protein [Arabidopsis thaliana]'		

Seq. No.	57966	Seq. ID	OJ000130_33.0417.C5
Gene No.	121202	Strand	+
Start	1784	End	4294
Name	OJ000130_33.0417.C5.o1.np	Method	AAT/NAP
Start	1841	End	4294
GI	7262678	Score	600
Exons	1841..1944, 2083..2180, 2310..2449, 3249..3279, 3678..3781, 4092..4294		
GI Descrip.	(AC012188) Contains similarity to UDP-galactose transporter from Homo sapiens gi|2136347. ESTs gb|AI992640, gb|W43266 come from this gene. [Arabidopsis thaliana]		

Seq. No.	57966	Seq. ID	OJ000130_33.0417.C5
Gene No.	121203	Strand	-
Start	914	End	1207
Name	OJ000130_33.0417.C5.o2.gs	Method	GENSCAN
Start	914	End	1207
GI	none	Score	.86
Exons	914..1207		

Seq. No.	57966	Seq. ID	OJ000130_33.0417.C5
Gene No.	121204	Strand	
Start	2342	End	4249
Name	OJ000130_33.0417.C5.o1.tm	Method	TBLASTX:Maize
Start	2342	End	4249
GI	none	Score	97
Exons	2342..2419, 2343..2417, 2348..2419, 2405..2452, 3676..3780, 3677..3781, 3678..3782, 3678..3788, 3679..3786, 4083..4214, 4084..4215, 4085..4249, 4091..4216		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121205	Strand	+
Start	983	End	2457
Name	OJ000130_33.0417.C7.o1.gs	Method	GENSCAN
Start	983	End	2457
GI	none	Score	.65
Exons	983..1944, 1992..2457		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121205	Strand	+
Start	983	End	2457
Name	OJ000130_33.0417.C7.o2.np	Method	AAT/NAP
Start	998	End	2430
GI	3935153	Score	788
Exons	998..1487, 1527..2430		
GI Descrip.	(AC005106) T25N20.17 [Arabidopsis thaliana]		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7

Gene No.	121206	Strand	+
Start	6248	End	6898
Name	OJ000130_33.0417.C7.o3.gs	Method	GENSCAN
Start	6248	End	6898
GI	none	Score	.97
Exons	6248..6898		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121207	Strand	+
Start	7592	End	8053
Name	OJ000130_33.0417.C7.o1.gp	Method	AAT/GAP
Start	7592	End	8053
GI	2309682	Score	736
Exons	7592..8053		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121208	Strand	+
Start	11482	End	15021
Name	OJ000130_33.0417.C7.o6.gs	Method	GENSCAN
Start	11482	End	15021
GI	none	Score	.64
Exons	11482..11566, 11622..11643, 11750..11824, 12220..12347, 12660..12962, 13042..13166, 13234..13422, 13493..13551, 13619..13665, 13684..14048, 14085..14380, 14509..14654, 14780..15021		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121208	Strand	+
Start	11482	End	15021
Name	OJ000130_33.0417.C7.o5.np	Method	AAT/NAP
Start	12248	End	13880
GI	6721558	Score	271
Exons	12248..12347, 13042..13166, 13671..13880		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121208	Strand	+
Start	11482	End	15021
Name	OJ000130_33.0417.C7.o6.np	Method	AAT/NAP
Start	12766	End	14381
GI	6721561	Score	1079
Exons	12766..12836, 13234..13422, 13493..13551, 13619..14381		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121209	Strand	-
Start	3029	End	6003
Name	OJ000130_33.0417.C7.o2.gs	Method	GENSCAN
Start	3029	End	6003
GI	none	Score	.71
Exons	3029..3052, 3150..3340, 4244..4282, 4644..4749, 5002..6003		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121209	Strand	-
Start	3029	End	6003
Name	OJ000130_33.0417.C7.o3.np	Method	AAT/NAP
Start	4941	End	5994
GI	130582	Score	530
Exons	4941..5994		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121210	Strand	-
Start	7159	End	8353
Name	OJ000130_33.0417.C7.o4.gs	Method	GENSCAN
Start	7159	End	8353
GI	none	Score	.87
Exons	7159..7465, 7484..7690, 7750..7807, 8137..8353		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121211	Strand	-
Start	9704	End	11799
Name	OJ000130_33.0417.C7.o4.np	Method	AAT/NAP
Start	9704	End	11799
GI	7523517	Score	283
Exons	9704..9724, 11298..11348, 11499..11799		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121212	Strand	-
Start	15887	End	21578
Name	OJ000130_33.0417.C7.o7.gs	Method	GENSCAN
Start	15887	End	21578
GI	none	Score	.76
Exons	15887..16165, 16331..16645, 16829..16998, 17047..17276, 17355..19018, 19094..19270, 19325..19498, 19628..20457, 20733..21116, 21205..21510, 21542..21578		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121212	Strand	-
Start	15887	End	21578
Name	OJ000130_33.0417.C7.o7.np	Method	AAT/NAP
Start	15890	End	20751
GI	7228457	Score	3131
Exons	15890..17428, 17495..19177, 19235..20751		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121213	Strand	-
Start	21918	End	22279
Name	OJ000130_33.0417.C7.o8.gs	Method	GENSCAN
Start	21918	End	22279
GI	none	Score	.8

Exons	21918..22145, 22190..22279		
Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o1.tc	Method	TBLASTX:Cress
Start	998	End	2241
GI	none	Score	83
Exons	998..1132, 1196..1249, 1247..1507, 1261..1503, 1520..1573, 1577..1717, 1810..1950, 1817..1951, 2046..2069, 2050..2241, 2098..2145, 2100..2210		
Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o5.tm	Method	TBLASTX:Maize
Start	1177	End	1461
GI	none	Score	211
Exons	1177..1461, 1178..1429		
Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o1.ts	Method	TBLASTX:Soybean
Start	1259	End	2307
GI	none	Score	78
Exons	1259..1420, 1520..1573, 1661..1720, 1733..1756, 1801..1950, 1814..1963, 2046..2204, 2050..2307		
Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o4.tm	Method	TBLASTX:Maize
Start	1661	End	2241
GI	none	Score	57
Exons	1661..1711, 1758..1790, 1808..1957, 1810..1956, 2050..2241, 2052..2189		
Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o8.tw	Method	TBLASTX:Wheat
Start	1823	End	2217
GI	none	Score	114
Exons	1823..1957, 1828..1956, 2046..2192, 2048..2095, 2050..2217		
Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o3.tw	Method	TBLASTX:Wheat
Start	15899	End	16507
GI	none	Score	79
Exons	15899..16030, 16055..16507, 16251..16358, 16397..16492		
Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668

Name	OJ000130_33.0417.C7.o5.tw	Method	TBLASTX:Wheat
Start	16631	End	17014
GI	none	Score	191
Exons	16631..17014, 16632..17006		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o2.tm	Method	TBLASTX:Maize
Start	16709	End	17014
GI	none	Score	161
Exons	16709..17014, 16710..16997		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o6.tw	Method	TBLASTX:Wheat
Start	17516	End	17924
GI	none	Score	49
Exons	17516..17689, 17519..17671, 17697..17924, 17699..17923		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o2.ts	Method	TBLASTX:Soybean
Start	18014	End	18382
GI	none	Score	82
Exons	18014..18382, 18264..18380		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o2.tw	Method	TBLASTX:Wheat
Start	18069	End	18493
GI	none	Score	256
Exons	18069..18383, 18071..18493, 18104..18490		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o3.tm	Method	TBLASTX:Maize
Start	18167	End	18550
GI	none	Score	111
Exons	18167..18550, 18168..18383, 18438..18515		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o1.tm	Method	TBLASTX:Maize
Start	18578	End	18934
GI	none	Score	234
Exons	18578..18934, 18579..18899		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o1.tw	Method	TBLASTX:Wheat

Start	18609	End	19064
GI	none	Score	351
Exons	18609..19064, 18609..19025, 18620..19063		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o4.tw	Method	TBLASTX:Wheat
Start	19256	End	19711
GI	none	Score	93
Exons	19256..19492, 19271..19480, 19374..19490, 19529..19711, 19530..19703		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o7.tw	Method	TBLASTX:Wheat
Start	20294	End	20692
GI	none	Score	76
Exons	20294..20692, 20385..20567, 20640..20678		

Seq. No.	57967	Seq. ID	OJ000130_33.0417.C7
Gene No.	121214	Strand	-
Start	22437	End	22668
Name	OJ000130_33.0417.C7.o8.np	Method	AAT/NAP
Start	22437	End	22668
GI	7523517	Score	217
Exons	22437..22668		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121215	Strand	-
Start	1115	End	2542
Name	OJ000130_33.0417.C8.o1.gs	Method	GENSCAN
Start	1115	End	2524
GI	none	Score	1
Exons	1115..2524		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121215	Strand	-
Start	1115	End	2542
Name	OJ000130_33.0417.C8.o1.np	Method	AAT/NAP
Start	1127	End	2542
GI	2149127	Score	739
Exons	1127..2542		
GI Descrip.	(U81293) UDP-glucose:indole-3-acetate beta-D-glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121216	Strand	-
Start	5394	End	5852
Name	OJ000130_33.0417.C8.o1.tc	Method	TBLASTX:Cress
Start	1136	End	2507
GI	none	Score	93
Exons	1136..1246, 1319..1498, 1383..1460, 1583..1723, 1583..1726, 1805..1876, 1943..2266, 1956..2174, 2375..2506, 2466..2507		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121216	Strand	-
Start	5394	End	5852
Name	OJ000130_33.0417.C8.o1.ts	Method	TBLASTX:Soybean
Start	1136	End	2260
GI	none	Score	84
Exons	1136..1231, 1307..1498, 1368..1466, 1577..1762, 1760..1783, 1883..2005, 2051..2260		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121216	Strand	-
Start	5394	End	5852
Name	OJ000130_33.0417.C8.o1.tw	Method	TBLASTX:Wheat
Start	1328	End	1714
GI	none	Score	94
Exons	1328..1498, 1334..1480, 1580..1714		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121216	Strand	-
Start	5394	End	5852
Name	OJ000130_33.0417.C8.o1.tm	Method	TBLASTX:Maize
Start	1386	End	1709
GI	none	Score	141
Exons	1386..1520, 1391..1498, 1568..1708, 1569..1709		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121216	Strand	-
Start	5394	End	5852
Name	OJ000130_33.0417.C8.o2.tm	Method	TBLASTX:Maize
Start	2037	End	2282
GI	none	Score	143
Exons	2037..2282, 2039..2281		

Seq. No.	57968	Seq. ID	OJ000130_33.0417.C8
Gene No.	121216	Strand	-
Start	5394	End	5852
Name	OJ000130_33.0417.C8.o2.gs	Method	GENSCAN
Start	5394	End	5852
GI	none	Score	.66
Exons	5394..5570, 5729..5852		

Seq. No.	57969	Seq. ID	OJ000130_33.0417.C10
Gene No.	121217	Strand	+
Start	47	End	171
Name	OJ000130_33.0417.C10.o1.gs	Method	GENSCAN
Start	47	End	171
GI	none	Score	.83
Exons	47..171		

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11
Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o1.np	Method	AAT/NAP
Start	481	End	6267
GI	7484781	Score	940
Exons	481..690, 815..889, 2487..2612, 2720..2816, 3792..3921, 4320..4498, 4644..4771, 4886..4987, 6172..6267		

GI Descrip. 3-hydroxyisobutyryl-coenzyme A hydrolase homolog T9E8.100 - Arabidopsis thaliana gi|4584541|emb|CAB40771.1| (AL049608) 3-hydroxyisobutyryl-coenzyme A hydrolase-like protein [Arabidopsis thaliana] gi|7268039|emb|CAB78378.1| (AL161536) 3-hydroxyisobutyryl-coenzyme A hydrolase-like protein [Arabidopsis thaliana]

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11
Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o1.tm	Method	TBLASTX:Maize
Start	578	End	6273
GI	none	Score	125
Exons	578..688, 579..692, 579..686, 587..691, 808..888, 810..887, 2474..2590, 2476..2592, 2476..2589, 2483..2590, 2484..2591, 2591..2608, 2702..2785, 2715..2837, 2719..2817, 2736..2837, 2923..2973, 3790..3921, 3791..3922, 3806..3919, 4320..4496, 4320..4433, 4321..4497, 4325..4498, 4637..4774, 4639..4773, 4640..4777, 4865..4987, 4885..4986, 6141..6269, 6175..6273		

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11
Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o1.tc	Method	TBLASTX:Cress
Start	579	End	2545
GI	none	Score	137
Exons	579..692, 587..691, 809..880, 810..887, 810..887, 811..888, 2474..2545		

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11
Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o1.ts	Method	TBLASTX:Soybean
Start	579	End	3859
GI	none	Score	147
Exons	579..692, 587..691, 2474..2590, 2476..2592, 2476..2589, 2711..2785, 2716..2769, 3790..3858, 3806..3859		

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11
Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o1.gp	Method	AAT/GAP
Start	589	End	866
GI	26677_1.R1084	Score	266
Exons	589..690, 815..866		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11
Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o1.gs	Method	GENSCAN
Start	591	End	827
GI	none	Score	.69
Exons	591..646, 725..827		

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11

Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o2.gs	Method	GENSCAN
Start	2398	End	7837
GI	none	Score	.82
Exons	2398..2457, 2720..2816, 3424..3486, 3792..3921, 4320..4498, 4644..4771, 4853..4957, 6172..6219, 6505..6651, 7712..7837		

Seq. No.	57970	Seq. ID	OJ000130_33.0417.C11
Gene No.	121218	Strand	+
Start	481	End	7837
Name	OJ000130_33.0417.C11.o2.gp	Method	AAT/GAP
Start	2715	End	6411
GI	34661_1:R1084	Score	1612
Exons	2715..2816, 3792..3921, 4320..4498, 4644..4771, 4886..4987, 6172..6411		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	57971	Seq. ID	OJ000130_33.0417.C12
Gene No.	121219	Strand	-
Start	157	End	1262
Name	OJ000130_33.0417.C12.o1.gs	Method	GENSCAN
Start	157	End	1230
GI	none	Score	.52
Exons	157..212, 860..1230		

Seq. No.	57971	Seq. ID	OJ000130_33.0417.C12
Gene No.	121219	Strand	-
Start	157	End	1262
Name	OJ000130_33.0417.C12.o1.np	Method	AAT/NAP
Start	922	End	1262
GI	7489454	Score	170
Exons	922..1262		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi|2943742|dbj|BAA25068.1| (AB002266) XA1 [Oryza sativa]		

Seq. No.	57972	Seq. ID	OJ000130_33.0417.C13
Gene No.	121220	Strand	-
Start	1	End	1168
Name	OJ000130_33.0417.C13.o1.np	Method	AAT/NAP
Start	1	End	1168
GI	7340909	Score	141
Exons	1..269, 1137..1168		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	57972	Seq. ID	OJ000130_33.0417.C13
Gene No.	121220	Strand	-
Start	1	End	1168
Name	OJ000130_33.0417.C13.o1.gs	Method	GENSCAN
Start	503	End	1049
GI	none	Score	.87
Exons	503..649, 847..1049		

Seq. No.	57973	Seq. ID	OJ000130_33.0417.C14
Gene No.	121221	Strand	-
Start	1	End	1483

Name	OJ000130_33.0417.C14.o1.np	Method	AAT/NAP
Start	1	End	1483
GI	7340884	Score	434
Exons	1..660, 736..872, 972..1483		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	57973	Seq. ID	OJ000130_33.0417.C14
Gene No.	121221	Strand	- -
Start	1	End	1483
Name	OJ000130_33.0417.C14.o2.tm	Method	TBLASTX:Maize
Start	194	End	702
GI	none	Score	115
Exons	194..406, 222..410, 652..702		

Seq. No.	57973	Seq. ID	OJ000130_33.0417.C14
Gene No.	121221	Strand	-
Start	1	End	1483
Name	OJ000130_33.0417.C14.o1.gs	Method	GENSCAN
Start	612	End	1188
GI	none	Score	.51
Exons	612..872, 972..1188		

Seq. No.	57973	Seq. ID	OJ000130_33.0417.C14
Gene No.	121221	Strand	-
Start	1	End	1483
Name	OJ000130_33.0417.C14.o1.tm	Method	TBLASTX:Maize
Start	703	End	1059
GI	none	Score	57
Exons	703..885, 722..880, 964..1059, 965..1054		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121222	Strand	+
Start	3968	End	15553
Name	OJ000130_33.0417.C16.o2.np	Method	AAT/NAP
Start	3968	End	9691
GI	7489737	Score	539
Exons	3968..4010, 5654..6426, 8788..8904, 8935..9464, 9539..9691		
GI Descrip.	gag protein homolog - maize retrotransposon Opie-2 gi|3645898|gb|AAC49501.1| (U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121222	Strand	+
Start	3968	End	15553
Name	OJ000130_33.0417.C16.o2.gs	Method	GENSCAN
Start	5587	End	6417
GI	none	Score	.96
Exons	5587..6417		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121222	Strand	+
Start	3968	End	15553
Name	OJ000130_33.0417.C16.o3.gs	Method	GENSCAN
Start	7976	End	15553
GI	none	Score	.43
Exons	7976..8074, 8171..8215, 8764..9165, 9716..9967, 10092..10248,		

11837..12128, 12299..12933, 12949..13421, 13580..14853,
14893..15553

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121222	Strand	+
Start	3968	End	15553
Name	OJ000130_33.0417.C16.o3.np	Method	AAT/NAP
Start	10086	End	14289
GI	7489803	Score	782
Exons	10086..10731, 14255..14289		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121222	Strand	+
Start	3968	End	15553
Name	OJ000130_33.0417.C16.o4.np	Method	AAT/NAP
Start	12318	End	15550
GI	7228456	Score	4098
Exons	12318..13552, 13683..15550		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121223	Strand	-
Start	1	End	2272
Name	OJ000130_33.0417.C16.o1.np	Method	AAT/NAP
Start	1	End	579
GI	7486404	Score	258
Exons	1..86, 149..346, 437..579		
GI Descrip.	hypothetical protein F4D11.110 - Arabidopsis thaliana gi|3063701|emb|CAA18592.1| (AL022537) putative protein [Arabidopsis thaliana] gi|7270173|emb|CAB79986.1| (AL161581) putative protein [Arabidopsis thaliana]		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121223	Strand	-
Start	1	End	2272
Name	OJ000130_33.0417.C16.o1.gp	Method	AAT/GAP
Start	216	End	623
GI	16260_1.R1084	Score	596
Exons	216..346, 437..623		
GI Descrip.	'3063701/emb|CAA18592.1| 4.0e-47 (AL022537) putative protein [Arabidopsis thaliana]'		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121223	Strand	-
Start	1	End	2272
Name	OJ000130_33.0417.C16.o1.gs	Method	GENSCAN
Start	216	End	2272
GI	none	Score	.56
Exons	216..660, 705..847, 2092..2272		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121224	Strand	-
Start	7831	End	7920
Name	OJ000130_33.0417.C16.o2.gp	Method	AAT/GAP

Start	7831	End	7920
GI	none	Score	142
Exons	7831..7920		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o1.ts	Method	TBLASTX:Soybean
Start	194	End	579
GI	none	Score	142
Exons	194..352, 211..351, 212..352, 485..577	441..461, 442..474, 484..579,	

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o1.tc	Method	TBLASTX:Cress
Start	211	End	579
GI	none	Score	103
Exons	211..348, 215..352, 436..477,	439..474, 484..579, 485..577	

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o7.tm	Method	TBLASTX:Maize
Start	211	End	333
GI	none	Score	140
Exons	211..333, 215..325		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o8.tw	Method	TBLASTX:Wheat
Start	5659	End	6087
GI	none	Score	254
Exons	5659..6087, 5692..5787, 5694..5792		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o4.ts	Method	TBLASTX:Soybean
Start	5689	End	10256
GI	none	Score	67
Exons	5689..5796, 5800..6135, 9992..10039, 10049..10090, 10101..10244, 10194..10256		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o5.tm	Method	TBLASTX:Maize
Start	5845	End	6246
GI	none	Score	213
Exons	5845..6246		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170

Name	OJ000130_33.0417.C16.o4.tm	Method	TBLASTX:Maize
Start	9996	End	10337
GI	none	Score	53
Exons	9996..10070, 9997..10071, 9998..10075, 10081..10290, 10083..10322, 10095..10337, 10100..10336		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o10.tw	Method	TBLASTX:Wheat
Start	10116	End	10346
GI	none	Score	211
Exons	10116..10346, 10116..10157, 10202..10330		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o1.tm	Method	TBLASTX:Maize
Start	10338	End	10733
GI	none	Score	88
Exons	10338..10457, 10346..10453, 10457..10726, 10464..10727, 10467..10733		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o6.tw	Method	TBLASTX:Wheat
Start	10505	End	10730
GI	none	Score	266
Exons	10505..10726, 10506..10730		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o9.tm	Method	TBLASTX:Maize
Start	16179	End	16322
GI	none	Score	126
Exons	16179..16322, 16183..16317		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o5.np	Method	AAT/NAP
Start	16182	End	21943
GI	7228457	Score	7970
Exons	16182..17732, 17799..18758, 18881..19517, 19581..21515, 21577..21943		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o7.tw	Method	TBLASTX:Wheat
Start	16191	End	16793
GI	none	Score	77

Exons	16191..16316, 16195..16317, 16504..16788, 16509..16793		
Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o3.tw	Method	TBLASTX:Wheat
Start	16794	End	17175
GI	none	Score	238
Exons	16794..17174, 16825..17175		
Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o2.tm	Method	TBLASTX:Maize
Start	16980	End	17312
GI	none	Score	83
Exons	16980..17192, 16989..17312, 16990..17268		
Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o11.tw	Method	TBLASTX:Wheat
Start	17505	End	17768
GI	none	Score	194
Exons	17505..17768		
Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o3.ts	Method	TBLASTX:Soybean
Start	17565	End	18131
GI	5666795	Score	71
Exons	17565..17771, 17820..17957, 18033..18131		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		
Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o4.tw	Method	TBLASTX:Wheat
Start	17820	End	18278
GI	none	Score	88
Exons	17820..17969, 17821..17958, 18013..18195, 18024..18278, 18030..18254		
Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o1.tw	Method	TBLASTX:Wheat
Start	18742	End	19137
GI	none	Score	293
Exons	18742..19137, 18745..19098, 18753..19136		
Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o2.ts	Method	TBLASTX:Soybean
Start	18753	End	19058

GI	none	Score	90
Exons	18753..19058, 18898..19041		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o3.tm	Method	TBLASTX:Maize
Start	18810	End	19194
GI	none	Score	235
Exons	18810..19193, 18829..19194		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o8.tm	Method	TBLASTX:Maize
Start	19206	End	19541
GI	none	Score	93
Exons	19206..19439, 19207..19431, 19452..19541		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o9.tw	Method	TBLASTX:Wheat
Start	19206	End	19388
GI	none	Score	129
Exons	19206..19388, 19207..19386		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o2.tw	Method	TBLASTX:Wheat
Start	19389	End	20160
GI	none	Score	152
Exons	19389..19586, 19390..19533, 19404..19586, 19674..20159, 19705..19965, 19987..20160		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o5.gs	Method	GENSCAN
Start	20310	End	22170
GI	none	Score	.73
Exons	20310..20992, 21101..21237, 21255..21961, 22015..22170		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o5.tw	Method	TBLASTX:Wheat
Start	20898	End	21236
GI	none	Score	85
Exons	20898..21155, 20932..21171, 21138..21236, 21139..21219		

Seq. No.	57974	Seq. ID	OJ000130_33.0417.C16
Gene No.	121225	Strand	-
Start	16182	End	22170
Name	OJ000130_33.0417.C16.o6.tm	Method	TBLASTX:Maize
Start	21000	End	21248

GI	none	Score	92
Exons	21000..21248, 21001..21246		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o1.np	Method	AAT/NAP
Start	1	End	2687
GI	6630685	Score	4203
Exons	1..36, 145..2687		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o1.gs	Method	GENSCAN
Start	145	End	5313
GI	none	Score	.4
Exons	145..2579, 3016..3129, 3662..3919, 4204..5313		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o2.tm	Method	TBLASTX:Maize
Start	156	End	1019
GI	none	Score	71
Exons	156..209, 161..202, 218..892, 219..1019, 896..937		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o2.tw	Method	TBLASTX:Wheat
Start	186	End	482
GI	none	Score	291
Exons	186..482, 206..481		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o3.ts	Method	TBLASTX:Soybean
Start	327	End	788
GI	none	Score	314
Exons	327..788, 347..637, 351..704		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o1.tc	Method	TBLASTX:Cress
Start	363	End	785
GI	none	Score	220
Exons	363..785		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o3.tw	Method	TBLASTX:Wheat

Start	570	End	914
GI	none	Score	133
Exons	570..659, 572..646, 580..648, 834..914, 834..914	648..812, 659..823, 769..834,	

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o4.tm	Method	TBLASTX:Maize
Start	1026	End	1345
GI	none	Score	469
Exons	1026..1343, 1028..1345		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o1.ts	Method	TBLASTX:Soybean
Start	1053	End	1660
GI	5509260	Score	233
Exons	1053..1268, 1055..1105, 1143..1283, 1277..1660, 1278..1658		
GI Descrip.	-		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o1.tw	Method	TBLASTX:Wheat
Start	1178	End	1652
GI	none	Score	89
Exons	1178..1267, 1194..1268, 1271..1297, 1289..1444, 1297..1503, 1299..1640, 1301..1633, 1302..1652		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o2.tc	Method	TBLASTX:Cress
Start	1260	End	1541
GI	none	Score	207
Exons	1260..1541, 1262..1522		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o3.tm	Method	TBLASTX:Maize
Start	1463	End	1898
GI	none	Score	630
Exons	1463..1897, 1464..1898		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o1.tm	Method	TBLASTX:Maize
Start	2013	End	2717
GI	none	Score	972
Exons	2013..2717, 2021..2710		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+

Start	1	End	5313
Name	OJ000130_33.0417.C17.o2.ts	Method	TBLASTX:Soybean
Start	2031	End	2672
GI	none	Score	300
Exons	2031..2420, 2255..2419, 2439..2672		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o4.tw	Method	TBLASTX:Wheat
Start	2169	End	2636
GI	none	Score	123
Exons	2169..2429, 2448..2636		

Seq. No.	57975	Seq. ID	OJ000130_33.0417.C17
Gene No.	121226	Strand	+
Start	1	End	5313
Name	OJ000130_33.0417.C17.o3.tc	Method	TBLASTX:Cress
Start	2304	End	2669
GI	none	Score	82
Exons	2304..2438, 2457..2669		

Seq. No.	57976	Seq. ID	OJ000130_33.0417.C18
Gene No.	121227	Strand	+
Start	70	End	557
Name	OJ000130_33.0417.C18.o1.gs	Method	GENSCAN
Start	70	End	557
GI	none	Score	.77
Exons	70..285, 357..557		

Seq. No.	57976	Seq. ID	OJ000130_33.0417.C18
Gene No.	121228	Strand	-
Start	3066	End	3119
Name	OJ000130_33.0417.C18.o2.gs	Method	GENSCAN
Start	3066	End	3119
GI	none	Score	.44
Exons	3066..3119		

Seq. No.	57977	Seq. ID	OJ000130_33.0417.C19
Gene No.	121229	Strand	+
Start	238	End	1628
Name	OJ000130_33.0417.C19.o1.gs	Method	GENSCAN
Start	238	End	1628
GI	none	Score	.59
Exons	238..628, 720..1018, 1569..1628		

Seq. No.	57977	Seq. ID	OJ000130_33.0417.C19
Gene No.	121230	Strand	-
Start	671	End	4723
Name	OJ000130_33.0417.C19.o1.np	Method	AAT/NAP
Start	671	End	4723
GI	2130141	Score	1010
Exons	671..741, 1711..1786, 2156..3639, 3724..3953, 4677..4723		
GI Descrip.	mudrA protein - maize transposon MuDR gi|540581 (M76978) mudrA [Zea mays] gi|595816 (U14597) mudrA gene product [Zea mays]		

Seq. No.	57977	Seq. ID	OJ000130_33.0417.C19

Gene No.	121230	Strand	-
Start	671	End	4723
Name	OJ000130_33.0417.C19.o3.tm	Method	TBLASTX:Maize
Start	2197	End	2517
GI	none	Score	83
Exons	2197..2370, 2198..2374, 2395..2517		

Seq. No.	57977	Seq. ID	OJ000130_33.0417.C19
Gene No.	121230	Strand	-
Start	671	End	4723
Name	OJ000130_33.0417.C19.o2.gs	Method	GENSCAN
Start	2424	End	3573
GI	none	Score	.42
Exons	2424..2437, 2442..3573		

Seq. No.	57977	Seq. ID	OJ000130_33.0417.C19
Gene No.	121230	Strand	-
Start	671	End	4723
Name	OJ000130_33.0417.C19.o1.tm	Method	TBLASTX:Maize
Start	2632	End	3261
GI	none	Score	68
Exons	2632..2937, 2633..2746, 2671..2889, 2914..3261, 2918..3256		

Seq. No.	57977	Seq. ID	OJ000130_33.0417.C19
Gene No.	121230	Strand	-
Start	671	End	4723
Name	OJ000130_33.0417.C19.o2.tm	Method	TBLASTX:Maize
Start	3265	End	3633
GI	none	Score	153
Exons	3265..3633, 3323..3616		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121231	Strand	+
Start	722	End	9364
Name	OJ000130_33.0417.C20.o1.gp	Method	AAT/GAP
Start	722	End	1103
GI	uC-osf1cyp033a04b1	Score	663
Exons	722..1103		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121231	Strand	+
Start	722	End	9364
Name	OJ000130_33.0417.C20.o1.gs	Method	GENSCAN
Start	826	End	9364
GI	none	Score	.76
Exons	826..890, 1943..2080, 2578..2748, 4137..4375, 6862..7004, 7087..7470, 7832..7921, 7999..8403, 8571..8708, 8810..8871, 8911..8967, 9091..9364		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121231	Strand	+
Start	722	End	9364
Name	OJ000130_33.0417.C20.o2.np	Method	AAT/NAP
Start	4149	End	9361
GI	7431444	Score	1214

Exons	4149..4375, 6862..7004, 7087..7470, 7832..7921, 7999..8172, 8266..8403, 8571..8708, 8810..8871, 9091..9361		
GI Descrip.	aldehyde dehydrogenase (NAD+) (EC 1.2.1.3) 2A precursor, mitochondrial - common tobacco gi|1743354|emb|CAA71003.1| (Y09876) aldehyde dehydrogenase (NAD+) [Nicotiana tabacum]		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121232	Strand	+
Start	12246	End	12494
Name	OJ000130_33.0417.C20.o4.np	Method	AAT/NAP
Start	12246	End	12494
GI	7340909	Score	83
Exons	12246..12494		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121233	Strand	-
Start	656	End	1726
Name	OJ000130_33.0417.C20.o1.np	Method	AAT/NAP
Start	656	End	1726
GI	4680186	Score	344
Exons	656..855, 1673..1726		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o1.ts	Method	TBLASTX:Soybean
Start	4318	End	8394
GI	none	Score	78
Exons	4318..4404, 6848..7006, 6852..6995, 7066..7419, 7120..7347, 7221..7418, 7417..7467, 7831..7926, 7832..7930, 7998..8171, 7999..8172, 8263..8394, 8265..8390		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o1.tc	Method	TBLASTX:Cress
Start	4321	End	9279
GI	none	Score	64
Exons	4321..4404, 6848..6988, 6852..6995, 7066..7461, 7227..7268, 7296..7445, 7826..7930, 7831..7917, 7998..8168, 7999..8172, 8205..8375, 8263..8406, 8568..8618, 8613..8708, 8797..8898, 8798..8869, 9076..9222, 9095..9226, 9226..9279		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o1.tm	Method	TBLASTX:Maize
Start	4324	End	9370
GI	none	Score	72
Exons	4324..4404, 6848..6988, 6852..6995, 7066..7263, 7227..7445, 7303..7461, 7829..7930, 7831..7917, 7999..8172, 8001..8105, 8263..8418, 8265..8411, 8568..8720, 8606..8719, 8797..8898, 8798..8872, 9076..9339, 9089..9370		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20

Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o1.tw	Method	TBLASTX:Wheat
Start	6860	End	7260
GI	none	Score	160
Exons	6860..7000, 6861..6995, 7066..7260, 7096..7260		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o2.tw	Method	TBLASTX:Wheat
Start	7285	End	8872
GI	none	Score	172
Exons	7285..7473, 7296..7448, 7829..7930, 7834..7902, 7999..8055, 8047..8118, 8113..8169, 8266..8418, 8571..8651, 8667..8720, 8834..8872		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o2.ts	Method	TBLASTX:Soybean
Start	8568	End	9384
GI	none	Score	173
Exons	8568..8708, 8588..8710, 8798..8872, 8809..8901, 9085..9384, 9089..9370		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o4.tw	Method	TBLASTX:Wheat
Start	9076	End	9268
GI	none	Score	179
Exons	9076..9267, 9080..9268		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o2.gp	Method	AAT/GAP
Start	10561	End	11319
GI	57500_1.R1084	Score	1429
Exons	10561..11319		
GI Descrip.	'5669634/gb|AAD46402.1|AF096246_1 5.0e-25 (AF096246) ethylene-responsive transcriptional coactivator [Lycopersicon esculentum]'		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o2.gs	Method	GENSCAN
Start	10805	End	11272
GI	none	Score	.93
Exons	10805..11272		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o3.np	Method	AAT/NAP

Start	10832	End	11269
GI	5669634	Score	395
Exons	10832..11269		
GI Descrip.	(AF096246) ethylene-responsive transcriptional coactivator [Lycopersicon esculentum]		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o2.tc	Method	TBLASTX:Cress
Start	10850	End	11255
GI	none	Score	84
Exons	10850..11074, 10851..11072, 11126..11251, 11127..11255		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o3.ts	Method	TBLASTX:Soybean
Start	10850	End	11251
GI	none	Score	66
Exons	10850..11074, 11126..11251, 11133..11237		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o3.tw	Method	TBLASTX:Wheat
Start	10850	End	11074
GI	none	Score	78
Exons	10850..11074, 10851..10973		

Seq. No.	57978	Seq. ID	OJ000130_33.0417.C20
Gene No.	121234	Strand	-
Start	10805	End	11319
Name	OJ000130_33.0417.C20.o2.tm	Method	TBLASTX:Maize
Start	10850	End	11255
GI	none	Score	87
Exons	10850..11074, 10851..10982, 11126..11251, 11133..11255		

Seq. No.	57979	Seq. ID	OJ000130_33.0417.C21
Gene No.	121235	Strand	+
Start	156	End	350
Name	OJ000130_33.0417.C21.o1.gs	Method	GENSCAN
Start	156	End	350
GI	none	Score	.41
Exons	156..171, 226..350		

Seq. No.	57979	Seq. ID	OJ000130_33.0417.C21
Gene No.	121236	Strand	-
Start	748	End	767
Name	OJ000130_33.0417.C21.o2.gs	Method	GENSCAN
Start	748	End	767
GI	none	Score	.57
Exons	748..767		

Seq. No.	57980	Seq. ID	OJ000130_33.0417.C24
Gene No.	121237	Strand	+
Start	970	End	1683

Name	OJ000130_33.0417.C24.o1.gs	Method	GENSCAN
Start	970	End	1683
GI	none	Score	.59
Exons	970..1029, 1462..1683		

Seq. No.	57980	Seq. ID	OJ000130_33.0417.C24
Gene No.	121237	Strand	+
Start	970	End	1683
Name	OJ000130_33.0417.C24.o1.gp	Method	AAT/GAP
Start	1240	End	1453
GI	4879016	Score	316
Exons	1240..1453		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121238	Strand	+
Start	738	End	4297
Name	OJ000130_33.0417.C25.o1.np	Method	AAT/NAP
Start	738	End	4297
GI	1076285	Score	132
Exons	738..922, 1837..2091, 4253..4297		
GI Descrip.	amidophosphoribosyltransferase - Arabidopsis thaliana gi|469195|dbj|BAA06024.1| (D28869) amidophosphoribosyltransferase [Arabidopsis thaliana]		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121239	Strand	-
Start	1729	End	2043
Name	OJ000130_33.0417.C25.o2.gs	Method	GENSCAN
Start	1729	End	2043
GI	none	Score	.89
Exons	1729..1938, 1948..2043		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997
Name	OJ000130_33.0417.C25.o3.tm	Method	TBLASTX:Maize
Start	1852	End	2000
GI	none	Score	192
Exons	1852..1998, 1905..2000		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997
Name	OJ000130_33.0417.C25.o2.np	Method	AAT/NAP
Start	7980	End	13997
GI	7489738	Score	2159
Exons	7980..8329, 11660..13438, 13920..13997		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi|4234852|gb|AAD12997.1| (AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997

Name	OJ000130_33.0417.C25.o4.gs	Method	GENSCAN
Start	9520	End	13154
GI	none	Score	.43
Exons	9520..9602, 9843..9929, 10281..10443, 10515..10706, 11936..12232, 12906..13154		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997
Name	OJ000130_33.0417.C25.o1.tm	Method	TBLASTX:Maize
Start	11855	End	12232
GI	none	Score	96
Exons	11855..12115, 11856..11975, 12089..12232		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997
Name	OJ000130_33.0417.C25.o1.tw	Method	TBLASTX:Wheat
Start	11915	End	12696
GI	none	Score	117
Exons	11915..12226, 11919..12359, 12313..12498, 12355..12492, 12359..12493, 12495..12695, 12495..12695, 12499..12696		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997
Name	OJ000130_33.0417.C25.o1.ts	Method	TBLASTX:Soybean
Start	12388	End	12825
GI	5509260	Score	38
Exons	12388..12498, 12464..12496, 12495..12767, 12514..12735, 12772..12825		
GI Descrip.	-		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997
Name	OJ000130_33.0417.C25.o2.tm	Method	TBLASTX:Maize
Start	12388	End	12695
GI	none	Score	69
Exons	12388..12498, 12389..12496, 12495..12695		

Seq. No.	57981	Seq. ID	OJ000130_33.0417.C25
Gene No.	121240	Strand	-
Start	7980	End	13997
Name	OJ000130_33.0417.C25.o1.tc	Method	TBLASTX:Cress
Start	12495	End	12737
GI	none	Score	100
Exons	12495..12737, 12499..12735		

Seq. No.	57982	Seq. ID	OJ000130_33.0417.C26
Gene No.	121241	Strand	-
Start	1	End	742
Name	OJ000130_33.0417.C26.o1.np	Method	AAT/NAP
Start	1	End	631
GI	7489738	Score	185
Exons	1..294, 483..631		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4		

gi|4234852|gb|AAD12997.1| (AF082133) gag-pol polyprotein [Zea mays]

Seq. No.	57982	Seq. ID	OJ000130_33.0417.C26
Gene No.	121241	Strand	-
Start	1	End	742
Name	OJ000130_33.0417.C26.o1.tm	Method	TBLASTX:Maize
Start	6	End	393
GI	none	Score	145
Exons	6..392, 10..393		

Seq. No.	57982	Seq. ID	OJ000130_33.0417.C26
Gene No.	121241	Strand	-
Start	1	End	742
Name	OJ000130_33.0417.C26.o1.gp	Method	AAT/GAP
Start	181	End	742
GI	uC-osf1M202052c07b1	Score	719
Exons	181..389, 536..742		
GI Descrip.	'4234848 1.0e-12 (AF082131) gag-pol polyprotein [Zea mays]'		

Seq. No.	57983	Seq. ID	OJ000130_33.0417.C27
Gene No.	121242	Strand	+
Start	1008	End	1553
Name	OJ000130_33.0417.C27.o1.gs	Method	GENSCAN
Start	1008	End	1553
GI	none	Score	.63
Exons	1008..1088, 1185..1553		

Seq. No.	57983	Seq. ID	OJ000130_33.0417.C27
Gene No.	121243	Strand	-
Start	482	End	2116
Name	OJ000130_33.0417.C27.o2.np	Method	AAT/NAP
Start	482	End	2116
GI	7339707	Score	69
Exons	482..514, 1324..1374, 2023..2116		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	57983	Seq. ID	OJ000130_33.0417.C27
Gene No.	121243	Strand	-
Start	482	End	2116
Name	OJ000130_33.0417.C27.o1.np	Method	AAT/NAP
Start	1127	End	1246
GI	4558665	Score	36
Exons	1127..1246		
GI Descrip.	(AC007063) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	57984	Seq. ID	OJ000130_33.0417.C28
Gene No.	121244	Strand	+
Start	1	End	2618
Name	OJ000130_33.0417.C28.o1.np	Method	AAT/NAP
Start	1	End	2618
GI	7339707	Score	75
Exons	1..431, 965..1076, 2490..2618		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	57984	Seq. ID	OJ000130_33.0417.C28
Gene No.	121245	Strand	-

Start	43	End	1645
Name	OJ000130_33.0417.C28.o1.gs	Method	GENSCAN
Start	43	End	1645
GI	none	Score	.71
Exons	43..324, 596..794, 1570..1645		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121246	Strand	+
Start	7113	End	9845
Name	OJ000130_33.0417.C29.o2.gs	Method	GENSCAN
Start	7113	End	9845
GI	none	Score	.96
Exons	7113..7202, 9747..9845		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121247	Strand	+
Start	11982	End	21499
Name	OJ000130_33.0417.C29.o3.gs	Method	GENSCAN
Start	11982	End	21499
GI	none	Score	.55
Exons	11982..12066, 12145..12299, 12890..13090, 13502..13549, 13719..13833, 14032..14234, 14720..15142, 15287..15553, 15567..15743, 15749..17800, 18360..18626, 18827..20974, 21398..21499		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o5.tw	Method	TBLASTX:Wheat
Start	18156	End	18503
GI	none	Score	109
Exons	18156..18281, 18157..18282, 18265..18378, 18283..18378, 18392..18490, 18393..18503		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o4.tm	Method	TBLASTX:Maize
Start	18570	End	19258
GI	none	Score	121
Exons	18570..18794, 18587..18805, 18848..19039, 18853..19008, 19013..19204, 19160..19258		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o3.tw	Method	TBLASTX:Wheat
Start	18824	End	19120
GI	none	Score	286
Exons	18824..19120, 18839..19114, 18847..19119		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o1.tm	Method	TBLASTX:Maize
Start	19397	End	20359
GI	none	Score	760

Exons	19397..20359, 19412..19807, 19750..19818, 19880..20239, 20086..20262		
Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o2.tw	Method	TBLASTX:Wheat
Start	19445	End	19759
GI	none	Score	336
Exons	19445..19759, 19467..19655, 19471..19665		
Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o6.tw	Method	TBLASTX:Wheat
Start	19760	End	20107
GI	none	Score	109
Exons	19760..19873, 19762..19878, 19882..20046, 19883..20035, 20027..20107		
Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o1.ts	Method	TBLASTX:Soybean
Start	19964	End	20491
GI	none	Score	54
Exons	19964..20020, 20090..20317, 20146..20316, 20306..20491, 20389..20463		
Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o4.tw	Method	TBLASTX:Wheat
Start	20113	End	20665
GI	none	Score	254
Exons	20113..20487, 20114..20488, 20489..20521, 20567..20665		
Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o6.tm	Method	TBLASTX:Maize
Start	20360	End	20533
GI	none	Score	198
Exons	20360..20533, 20362..20532		
Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o2.tm	Method	TBLASTX:Maize
Start	20567	End	21034
GI	none	Score	326
Exons	20567..20935, 20570..20824, 20575..20928, 20966..21034, 20971..21009		
Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855

Name	OJ000130_33.0417.C29.o1.tw	Method	TBLASTX:Wheat
Start	20765	End	21129
GI	none	Score	360
Exons	20765..21127, 20878..21129, 20878..21129		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o5.tm	Method	TBLASTX:Maize
Start	21035	End	21358
GI	none	Score	153
Exons	21035..21178, 21035..21184, 21241..21357, 21242..21358		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o1.gp	Method	AAT/GAP
Start	22303	End	22814
GI	none	Score	894
Exons	22303..22814		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o3.tm	Method	TBLASTX:Maize
Start	22357	End	22855
GI	none	Score	200
Exons	22357..22491, 22358..22495, 22625..22663, 22649..22855, 22667..22852		

Seq. No.	57985	Seq. ID	OJ000130_33.0417.C29
Gene No.	121248	Strand	+
Start	22358	End	22855
Name	OJ000130_33.0417.C29.o4.gs	Method	GENSCAN
Start	22358	End	22852
GI	none	Score	.93
Exons	22358..22852		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121249	Strand	+
Start	1	End	907
Name	OJ000130_33.0417.C30.o1.np	Method	AAT/NAP
Start	1	End	907
GI	6899926	Score	439
Exons	1..23, 51..907		
GI Descrip.	(AL138651) putative protein [Arabidopsis thaliana]		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121249	Strand	+
Start	1	End	907
Name	OJ000130_33.0417.C30.o1.gp	Method	AAT/GAP
Start	54	End	147
GI	5002754	Score	150
Exons	54..147		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121249	Strand	+

Start	1	End	907
Name	OJ000130_33.0417.C30.o1.gs	Method	GENSCAN
Start	59	End	895
GI	none	Score	.99
Exons	59..466, 518..895		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121249	Strand	+
Start	1	End	907
Name	OJ000130_33.0417.C30.o2.gp	Method	AAT/GAP
Start	181	End	362
GI	none	Score	317
Exons	181..362		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121250	Strand	+
Start	851	End	1222
Name	OJ000130_33.0417.C30.o4.gp	Method	AAT/GAP
Start	851	End	1222
GI	5002753	Score	723
Exons	851..1222		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121251	Strand	-
Start	360	End	1174
Name	OJ000130_33.0417.C30.o3.gp	Method	AAT/GAP
Start	360	End	1174
GI	none	Score	1437
Exons	360..1174		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121252	Strand	-
Start	1432	End	1541
Name	OJ000130_33.0417.C30.o1.tm	Method	TBLASTX:Maize
Start	53	End	889
GI	none	Score	300
Exons	53..343, 55..210, 68..268, 338..634, 349..633, 626..889, 643..888		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121252	Strand	-
Start	1432	End	1541
Name	OJ000130_33.0417.C30.o1.tw	Method	TBLASTX:Wheat
Start	584	End	823
GI	none	Score	189
Exons	584..823, 592..774		

Seq. No.	57986	Seq. ID	OJ000130_33.0417.C30
Gene No.	121252	Strand	-
Start	1432	End	1541
Name	OJ000130_33.0417.C30.o2.np	Method	AAT/NAP
Start	1432	End	1541
GI	5852093	Score	64
Exons	1432..1541		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31

Gene No.	121253	Strand	+
Start	7452	End	7872
Name	OJ000130_33.0417.C31.o1.gp	Method	AAT/GAP
Start	7452	End	7872
GI	none	Score	821
Exons	7452..7872		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31
Gene No.	121254	Strand	-
Start	7650	End	8889
Name	OJ000130_33.0417.C31.o1.ts	Method	TBLASTX:Soybean
Start	7638	End	8804
GI	none	Score	103
Exons	7638..7727, 7906..8106, 7962..8105, 8196..8288, 8269..8391, 8274..8393, 8421..8525, 8595..8804, 8644..8784		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31
Gene No.	121254	Strand	-
Start	7650	End	8889
Name	OJ000130_33.0417.C31.o1.np	Method	AAT/NAP
Start	7650	End	8783
GI	6730740	Score	526
Exons	7650..8526, 8554..8783		
GI Descrip.	(AC018849) unknown protein [Arabidopsis thaliana]		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31
Gene No.	121254	Strand	-
Start	7650	End	8889
Name	OJ000130_33.0417.C31.o2.tm	Method	TBLASTX:Maize
Start	8196	End	8391
GI	none	Score	173
Exons	8196..8390, 8224..8391		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31
Gene No.	121254	Strand	-
Start	7650	End	8889
Name	OJ000130_33.0417.C31.o2.gp	Method	AAT/GAP
Start	8215	End	8538
GI	none	Score	615
Exons	8215..8538		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31
Gene No.	121254	Strand	-
Start	7650	End	8889
Name	OJ000130_33.0417.C31.o1.tc	Method	TBLASTX:Cress
Start	8274	End	8784
GI	none	Score	80
Exons	8274..8306, 8298..8393, 8299..8388, 8421..8525, 8574..8780, 8671..8784		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31
Gene No.	121254	Strand	-
Start	7650	End	8889
Name	OJ000130_33.0417.C31.o1.tm	Method	TBLASTX:Maize
Start	8439	End	8781
GI	none	Score	97
Exons	8439..8531, 8440..8529, 8595..8780, 8632..8781		

Seq. No.	57987	Seq. ID	OJ000130_33.0417.C31
Gene No.	121254	Strand	-
Start	7650	End	8889
Name	OJ000130_33.0417.C31.o3.gp	Method	AAT/GAP
Start	8539	End	8889
GI	73134_1.R1084	Score	674
Exons	8539..8889		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	57988	Seq. ID	OJ000130_33.0417.C32
Gene No.	121255	Strand	+
Start	275	End	1668
Name	OJ000130_33.0417.C32.o1.gs	Method	GENSCAN
Start	275	End	1668
GI	none	Score	.7
Exons	275..277, 851..1051, 1153..1411, 1456..1668		

Seq. No.	57989	Seq. ID	OJ000130_33.0417.C33
Gene No.	121256	Strand	+
Start	1	End	2351
Name	OJ000130_33.0417.C33.o2.np	Method	AAT/NAP
Start	1	End	2351
GI	7489065	Score	486
Exons	1..75, 116..1252, 1289..1505, 1567..2351		
GI Descrip.	resistance complex protein I2C-1 - tomato gi|2258315|gb|AAB63274.1| (AF004878) resistance complex protein I2C-1 [Lycopersicon esculentum]		

Seq. No.	57989	Seq. ID	OJ000130_33.0417.C33
Gene No.	121256	Strand	+
Start	1	End	2351
Name	OJ000130_33.0417.C33.o1.np	Method	AAT/NAP
Start	72	End	1249
GI	7489397	Score	641
Exons	72..1249		
GI Descrip.	NBS-LRR type resistance protein - barley (fragment) gi|2792210|gb|AAB96980.1| (AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	57989	Seq. ID	OJ000130_33.0417.C33
Gene No.	121256	Strand	+
Start	1	End	2351
Name	OJ000130_33.0417.C33.o1.gs	Method	GENSCAN
Start	136	End	1740
GI	none	Score	.53
Exons	136..777, 1013..1304, 1576..1740		

Seq. No.	57989	Seq. ID	OJ000130_33.0417.C33
Gene No.	121256	Strand	+
Start	1	End	2351
Name	OJ000130_33.0417.C33.o1.tm	Method	TBLASTX:Maize
Start	283	End	573
GI	none	Score	88
Exons	283..390, 451..573, 453..566		

Seq. No.	57989	Seq. ID	OJ000130_33.0417.C33
Gene No.	121256	Strand	+
Start	1	End	2351
Name	OJ000130_33.0417.C33.o1.ts	Method	TBLASTX:Soybean
Start	746	End	1201
GI	none	Score	266
Exons	746..1111, 1106..1201		

Seq. No.	57990	Seq. ID	OJ000130_33.0417.C36
Gene No.	121257	Strand	+
Start	488	End	1129
Name	OJ000130_33.0417.C36.o1.np	Method	AAT/NAP
Start	488	End	1129
GI	2498930	Score	706
Exons	488..551, 719..1129		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	57990	Seq. ID	OJ000130_33.0417.C36
Gene No.	121257	Strand	+
Start	488	End	1129
Name	OJ000130_33.0417.C36.o1.gs	Method	GENSCAN
Start	492	End	1093
GI	none	Score	.78
Exons	492..551, 719..1093		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121258	Strand	+
Start	1	End	1311
Name	OJ000310_35.0424.C2.o1.np	Method	AAT/NAP
Start	1	End	1308
GI	7489826	Score	881
Exons	1..23, 263..445, 552..683, 777..888, 976..1099, 1179..1308		
GI Descrip.	starch synthase DULL1 - maize gi|3057120|gb|AAC14014.1| (AF023159) starch synthase DULL1 [Zea mays]		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121258	Strand	+
Start	1	End	1311
Name	OJ000310_35.0424.C2.o1.gs	Method	GENSCAN
Start	263	End	1311
GI	none	Score	.99
Exons	263..445, 552..683, 777..888, 976..1099, 1179..1311		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121259	Strand	+
Start	5256	End	10708
Name	OJ000310_35.0424.C2.o3.gs	Method	GENSCAN
Start	5256	End	10708
GI	none	Score	.53
Exons	5256..5339, 5351..5524, 5603..5766, 8186..8272, 10504..10708		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121260	Strand	+
Start	13331	End	14883
Name	OJ000310_35.0424.C2.o4.np	Method	AAT/NAP

Start	13331	End	14883
GI	5902444	Score	2551
Exons	13331..14883		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121260	Strand	+
Start	13331	End	14883
Name	OJ000310_35.0424.C2.o5.gs	Method	GENSCAN
Start	13331	End	14792
GI	none	Score	.46
Exons	13331..13482, 13520..14033, 14117..14792		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121261	Strand	-
Start	1996	End	4370
Name	OJ000310_35.0424.C2.o2.gs	Method	GENSCAN
Start	1996	End	4298
GI	none	Score	.9
Exons	1996..2828, 2947..3212, 3694..4298		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121261	Strand	-
Start	1996	End	4370
Name	OJ000310_35.0424.C2.o2.np	Method	AAT/NAP
Start	1996	End	4370
GI	1172587	Score	1148
Exons	1996..2841, 2951..3208, 3690..4370		
GI Descrip.	POLYPHENOL OXIDASE PRECURSOR (PPO) (CATECHOL OXIDASE) gi|1076272|pir||S52629 catechol oxidase (EC 1.10.3.1) precursor - grape gi|510234|emb|CAA81798| (Z27411) polyphenol oxidase [Vitis vinifera]		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o1.tm	Method	TBLASTX:Maize
Start	254	End	9017
GI	none	Score	296
Exons	254..457, 261..326, 262..447, 544..633, 551..682, 552..686, 777..890, 782..889, 922..1086, 955..1098, 975..1100, 975..1106, 1176..1310, 1177..1311, 1186..1317, 1187..1318, 1187..1318, 8970..9017, 8972..9013		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o1.ts	Method	TBLASTX:Soybean
Start	254	End	9017
GI	none	Score	296
Exons	254..457, 261..326, 262..447, 544..633, 551..682, 551..682, 552..686, 777..890, 782..889, 922..1086, 955..1098, 975..1100, 975..1106, 1176..1310, 1177..1311, 1186..1317, 1187..1318, 1187..1318, 8970..9017, 8972..9013		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-

Start	11817	End	14881
Name	OJ000310_35.0424.C2.o1.tc	Method	TBLASTX:Cress
Start	386	End	892
GI	none	Score	105
Exons	386..457, 388..447, 551..682, 552..686, 776..892, 777..890		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o2.tc	Method	TBLASTX:Cress
Start	1017	End	9017
GI	none	Score	104
Exons	1017..1097, 1040..1093, 1176..1304, 1180..1302, 1180..1314, 8970..9017		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o4.tm	Method	TBLASTX:Maize
Start	1987	End	11966
GI	none	Score	83
Exons	1987..2193, 2018..2140, 11832..11960, 11860..11961, 11871..11966		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o2.ts	Method	TBLASTX:Soybean
Start	2011	End	12643
GI	none	Score	147
Exons	2011..2127, 2245..2283, 2320..2373, 2437..2580, 2599..2853, 2657..2815, 2692..2853, 2896..2910, 3008..3214, 3060..3161, 3690..3827, 3703..3822, 11832..11990, 12017..12076, 12083..12193, 12215..12241, 12248..12643, 12447..12605		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o2.tm	Method	TBLASTX:Maize
Start	2536	End	12656
GI	none	Score	327
Exons	2536..2598, 2597..2869, 2599..2844, 12329..12634, 12432..12656		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o3.tm	Method	TBLASTX:Maize
Start	3002	End	3208
GI	none	Score	87
Exons	3002..3208, 3069..3158		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o4.gs	Method	GENSCAN
Start	11817	End	12640
GI	none	Score	.54
Exons	11817..11981, 12020..12640		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o3.np	Method	AAT/NAP
Start	11820	End	14710
GI	418754	Score	457
Exons	11820..12631, 12779..12819, 14680..14710		
GI Descrip.	catechol oxidase (EC 1.10.3.1) precursor - fava bean		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o1.gp	Method	AAT/GAP
Start	12896	End	13203
GI	5816559	Score	502
Exons	12896..13203		
GI Descrip.	4680178/gb|AF111709.1|AF111709 1.0e-108 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	57991	Seq. ID	OJ000310_35.0424.C2
Gene No.	121262	Strand	-
Start	11817	End	14881
Name	OJ000310_35.0424.C2.o1.tw	Method	TBLASTX:Wheat
Start	14492	End	14881
GI	none	Score	41
Exons	14492..14566, 14582..14881, 14611..14862		

Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644
Name	OJ000310_35.0424.C3.o1.np	Method	AAT/NAP
Start	1	End	1208
GI	5902444	Score	2016
Exons	1..1208		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644
Name	OJ000310_35.0424.C3.o1.gs	Method	GENSCAN
Start	15	End	1587
GI	none	Score	.9
Exons	15..1195, 1292..1587		

Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644
Name	OJ000310_35.0424.C3.o2.tw	Method	TBLASTX:Wheat
Start	543	End	1220
GI	none	Score	150
Exons	543..719, 606..719, 764..1000, 768..998, 1104..1220		

Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644

Name	OJ000310_35.0424.C3.o2.tm	Method	TBLASTX:Maize
Start	851	End	998
GI	none	Score	183
Exons	851..997, 852..998		
Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644
Name	OJ000310_35.0424.C3.o1.tw	Method	TBLASTX:Wheat
Start	1220	End	1636
GI	none	Score	467
Exons	1220..1636, 1221..1628, 1255..1635		
Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644
Name	OJ000310_35.0424.C3.o1.ts	Method	TBLASTX:Soybean
Start	1260	End	1625
GI	none	Score	138
Exons	1260..1484, 1491..1625		
Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644
Name	OJ000310_35.0424.C3.o2.np	Method	AAT/NAP
Start	1275	End	1644
GI	5902445	Score	630
Exons	1275..1644		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	57992	Seq. ID	OJ000310_35.0424.C3
Gene No.	121263	Strand	+
Start	1	End	1644
Name	OJ000310_35.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	1350	End	1643
GI	none	Score	319
Exons	1350..1643, 1391..1642		
Seq. No.	57993	Seq. ID	OJ000310_35.0424.C4
Gene No.	121264	Strand	-
Start	118	End	1699
Name	OJ000310_35.0424.C4.o1.gs	Method	GENSCAN
Start	118	End	1699
GI	none	Score	.45
Exons	118..178, 384..456, 845..986, 1604..1699		
Seq. No.	57994	Seq. ID	OJ000310_35.0424.C5
Gene No.	121265	Strand	+
Start	456	End	2160
Name	OJ000310_35.0424.C5.o1.gp	Method	AAT/GAP
Start	456	End	1443
GI	71733_1.R1084	Score	756
Exons	456..570, 1171..1443		
GI Descrip.	'3057120 3.0e-53 (AF023159) starch synthase DULL1 [Zea mays]'		
Seq. No.	57994	Seq. ID	OJ000310_35.0424.C5
Gene No.	121265	Strand	+

Start	456	End	2160
Name	OJ000310_35.0424.C5.o1.gs	Method	GENSCAN
Start	1327	End	2137
GI	none	Score	.46
Exons	1327..1593, 1932..2137		

Seq. No.	57994	Seq. ID	OJ000310_35.0424.C5
Gene No.	121265	Strand	+
Start	456	End	2160
Name	OJ000310_35.0424.C5.o1.np	Method	AAT/NAP
Start	1364	End	2137
GI	7485249	Score	248
Exons	1364..1593, 1932..2137		
GI Descrip.	hypothetical protein A_IG002P16.22 - Arabidopsis thaliana gi|2191173|gb|AAB61059.1| (AF007270) contains similarity to DNA polymerase III, alpha chain (SP:P47277) [Arabidopsis thaliana]		

Seq. No.	57994	Seq. ID	OJ000310_35.0424.C5
Gene No.	121265	Strand	+
Start	456	End	2160
Name	OJ000310_35.0424.C5.o1.tm	Method	TBLASTX:Maize
Start	1390	End	2160
GI	none	Score	176
Exons	1390..1527, 1391..1546, 1556..1594, 1906..2160, 1929..2159		

Seq. No.	57994	Seq. ID	OJ000310_35.0424.C5
Gene No.	121265	Strand	+
Start	456	End	2160
Name	OJ000310_35.0424.C5.o2.gp	Method	AAT/GAP
Start	1478	End	2141
GI	60242_1.R1084	Score	572
Exons	1478..1593, 1932..2141		
GI Descrip.	'2191173 6.0e-34 (AF007270) contains similarity to DNA polymerase III, alpha chain (SP:P47277) [Arabidopsis thaliana]'		

Seq. No.	57995	Seq. ID	OJ000310_35.0424.C6
Gene No.	121266	Strand	+
Start	1630	End	1943
Name	OJ000310_35.0424.C6.o1.gs	Method	GENSCAN
Start	1630	End	1943
GI	none	Score	.54
Exons	1630..1943		

Seq. No.	57995	Seq. ID	OJ000310_35.0424.C6
Gene No.	121267	Strand	+
Start	2222	End	3577
Name	OJ000310_35.0424.C6.o2.gs	Method	GENSCAN
Start	2222	End	3577
GI	none	Score	.68
Exons	2222..2232, 2922..3082, 3441..3577		

Seq. No.	57995	Seq. ID	OJ000310_35.0424.C6
Gene No.	121268	Strand	+
Start	6157	End	6286
Name	OJ000310_35.0424.C6.o3.gs	Method	GENSCAN
Start	6157	End	6286
GI	none	Score	.99

Exons	6157..6286		
Seq. No.	57996	Seq. ID	OJ000310_35.0424.C8
Gene No.	121269	Strand	+
Start	374	End	899
Name	OJ000310_35.0424.C8.o1.gp	Method	AAT/GAP
Start	374	End	899
GI	327_1.R1084	Score	999
Exons	374..899		
GI Descrip.	'6094345/sp|O04433|SR14_ORYSA 4.0e-47 SIGNAL RECOGNITION PARTICLE 14 KD PROTEIN (SRP14) >gi_2208962_emb_CAA71204_ (Y10118) signal recognition particle subunit 14 [Oryza sativa]'		
Seq. No.	57996	Seq. ID	OJ000310_35.0424.C8
Gene No.	121269	Strand	+
Start	374	End	899
Name	OJ000310_35.0424.C8.o1.gs	Method	GENSCAN
Start	374	End	561
GI	none	Score	.95
Exons	374..561		
Seq. No.	57996	Seq. ID	OJ000310_35.0424.C8
Gene No.	121269	Strand	+
Start	374	End	899
Name	OJ000310_35.0424.C8.o1.np	Method	AAT/NAP
Start	374	End	562
GI	6094345	Score	283
Exons	374..562		
GI Descrip.	SIGNAL RECOGNITION PARTICLE 14 KD PROTEIN (SRP14) gi|2208962|emb|CAA71204| (Y10118) signal recognition particle subunit 14 [Oryza sativa]		
Seq. No.	57997	Seq. ID	OJ000310_35.0424.C9
Gene No.	121270	Strand	+
Start	1	End	1348
Name	OJ000310_35.0424.C9.o1.np	Method	AAT/NAP
Start	1	End	1348
GI	3915699	Score	374
Exons	1..198, 1263..1348		
GI Descrip.	AMINOMETHYLTRANSFERASE PRECURSOR (GLYCINE CLEAVAGE SYSTEM T PROTEIN) gi|541970|pir||S40260 T-protein - garden pea gi|1362061|pir||S56661 aminomethyltransferase (EC 2.1.2.10) precursor - garden pea gi|438217|emb|CAA81080.1| (Z25861) T-protein [Pisum sativum] gi|3021553|emb|CAA10976.1| (AJ222771) T protein [Pisum sativum]		
Seq. No.	57997	Seq. ID	OJ000310_35.0424.C9
Gene No.	121270	Strand	+
Start	1	End	1348
Name	OJ000310_35.0424.C9.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1337
GI	none	Score	305
Exons	1..198, 3..197, 1260..1337		
Seq. No.	57997	Seq. ID	OJ000310_35.0424.C9
Gene No.	121270	Strand	+
Start	1	End	1348

Name	OJ000310_35.0424.C9.o1:tm	Method	TBLASTX:Maize
Start	1	End	1337
GI	none	Score	317
Exons	1..198, 3..197, 88..198, 1256..1300, 1260..1337, 1260..1331		

Seq. No.	57997	Seq. ID	OJ000310_35.0424.C9
Gene No.	121270	Strand	+
Start	1	End	1348
Name	OJ000310_35.0424.C9.o1.gs	Method	GENSCAN
Start	49	End	198
GI	none	Score	.95
Exons	49..198		

Seq. No.	57998	Seq. ID	OJ000310_35.0424.C10
Gene No.	121271	Strand	+
Start	359	End	496
Name	OJ000310_35.0424.C10.o1.gs	Method	GENSCAN
Start	359	End	496
GI	none	Score	.65
Exons	359..435, 451..496		

Seq. No.	57998	Seq. ID	OJ000310_35.0424.C10
Gene No.	121272	Strand	-
Start	939	End	3988
Name	OJ000310_35.0424.C10.o2.gs	Method	GENSCAN
Start	939	End	3988
GI	none	Score	.4
Exons	939..1081, 3811..3988		

Seq. No.	57999	Seq. ID	OJ000310_35.0424.C11
Gene No.	121273	Strand	-
Start	511	End	986
Name	OJ000310_35.0424.C11.o1.gs	Method	GENSCAN
Start	511	End	789
GI	none	Score	.85
Exons	511..789		

Seq. No.	57999	Seq. ID	OJ000310_35.0424.C11
Gene No.	121273	Strand	-
Start	511	End	986
Name	OJ000310_35.0424.C11.o1.np	Method	AAT/NAP
Start	616	End	986
GI	6006359	Score	49
Exons	616..737, 947..986		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	58000	Seq. ID	OJ000310_35.0424.C15
Gene No.	121274	Strand	-
Start	671	End	989
Name	OJ000310_35.0424.C15.o1.gs	Method	GENSCAN
Start	671	End	989
GI	none	Score	.51
Exons	671..781, 962..989		

Seq. No.	58001	Seq. ID	OJ000310_35.0424.C17
Gene No.	121275	Strand	+
Start	392	End	737

Name	OJ000310_35.0424.C17.o1.tm	Method	TBLASTX:Maize
Start	380	End	534
GI	none	Score	229
Exons	380..532, 388..534, 403..531		

Seq. No.	58001	Seq. ID	OJ000310_35.0424.C17
Gene No.	121275	Strand	+
Start	392	End	737
Name	OJ000310_35.0424.C17.o1.ts	Method	TBLASTX:Soybean
Start	389	End	532
GI	none	Score	220
Exons	389..532, 403..531		

Seq. No.	58001	Seq. ID	OJ000310_35.0424.C17
Gene No.	121275	Strand	+
Start	392	End	737
Name	OJ000310_35.0424.C17.o1.gs	Method	GENSCAN
Start	392	End	531
GI	none	Score	.97
Exons	392..531		

Seq. No.	58001	Seq. ID	OJ000310_35.0424.C17
Gene No.	121275	Strand	+
Start	392	End	737
Name	OJ000310_35.0424.C17.o1.np	Method	AAT/NAP
Start	395	End	737
GI	228403	Score	167
Exons	395..531, 640..737		
GI Descrip.	glycolate oxidase [Lens culinaris]		

Seq. No.	58001	Seq. ID	OJ000310_35.0424.C17
Gene No.	121275	Strand	+
Start	392	End	737
Name	OJ000310_35.0424.C17.o1.tc	Method	TBLASTX:Cress
Start	401	End	532
GI	none	Score	200
Exons	401..532, 401..520, 403..531		

Seq. No.	58002	Seq. ID	OJ000310_35.0424.C18
Gene No.	121276	Strand	+
Start	1	End	981
Name	OJ000310_35.0424.C18.o1.np	Method	AAT/NAP
Start	1	End	981
GI	1773330	Score	533
Exons	1..39, 166..235, 334..434, 590..694, 790..981		
GI Descrip.	(U80071) glycolate oxidase [Mesembryanthemum crystallinum]		

Seq. No.	58002	Seq. ID	OJ000310_35.0424.C18
Gene No.	121276	Strand	+
Start	1	End	981
Name	OJ000310_35.0424.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	939
GI	none	Score	44
Exons	1..33, 163..240, 163..237, 165..239, 333..434, 335..436, 336..437, 365..436, 587..697, 589..693, 617..697, 790..939, 790..909		

Seq. No.	58002	Seq. ID	OJ000310_35.0424.C18
Gene No.	121276	Strand	+
Start	1	End	981
Name	OJ000310_35.0424.C18.o2.tc	Method	TBLASTX:Cress
Start	1	End	437
GI	none	Score	43
Exons	1..33, 163..252, 165..239, 333..437, 365..436		

Seq. No.	58002	Seq. ID	OJ000310_35.0424.C18
Gene No.	121276	Strand	+
Start	1	End	981
Name	OJ000310_35.0424.C18.o1.gs	Method	GENSCAN
Start	160	End	972
GI	none	Score	.99
Exons	160..235, 334..434, 790..972		

Seq. No.	58002	Seq. ID	OJ000310_35.0424.C18
Gene No.	121276	Strand	+
Start	1	End	981
Name	OJ000310_35.0424.C18.o1.ts	Method	TBLASTX:Soybean
Start	572	End	947
GI	none	Score	173
Exons	572..697, 574..693, 789..947, 790..939		

Seq. No.	58002	Seq. ID	OJ000310_35.0424.C18
Gene No.	121276	Strand	+
Start	1	End	981
Name	OJ000310_35.0424.C18.o1.tc	Method	TBLASTX:Cress
Start	589	End	962
GI	none	Score	156
Exons	589..693, 590..697, 789..962, 790..939		

Seq. No.	58003	Seq. ID	OJ000310_35.0424.C19
Gene No.	121277	Strand	+
Start	328	End	2795
Name	OJ000310_35.0424.C19.o1.gs	Method	GENSCAN
Start	328	End	2748
GI	none	Score	.43
Exons	328..546, 618..690, 873..1022, 1356..1535, 1709..1869, 2351..2388, 2686..2748		

Seq. No.	58003	Seq. ID	OJ000310_35.0424.C19
Gene No.	121277	Strand	+
Start	328	End	2795
Name	OJ000310_35.0424.C19.o1.tm	Method	TBLASTX:Maize
Start	1393	End	2374
GI	none	Score	205
Exons	1393..1536, 1393..1536, 1737..1853, 1740..1871, 1744..1854, 1772..1870, 1955..2002, 2083..2166, 2084..2164, 2087..2173, 2088..2174, 2241..2372, 2247..2369, 2249..2374, 2252..2374		

Seq. No.	58003	Seq. ID	OJ000310_35.0424.C19
Gene No.	121277	Strand	+
Start	328	End	2795
Name	OJ000310_35.0424.C19.o1.np	Method	AAT/NAP
Start	1399	End	2795
GI	7431423	Score	601

Exons	1399..1535, 1745..1869, 1957..2003, 2084..2161, 2247..2371, 2532..2598, 2686..2795		
GI Descrip.	probable (S)-2-hydroxy-acid oxidase (EC 1.1.3.15), peroxisomal - Arabidopsis thaliana (fragment) gi|2832641|emb|CAA16716.1| (AL021710) glycolate oxidase - like protein [Arabidopsis thaliana] gi|7268629|emb|CAB78838.1| (AL161548) glycolate oxidase-like protein [Arabidopsis thaliana]		

Seq. No.	58003	Seq. ID	OJ000310_35.0424.C19
Gene No.	121277	Strand	+
Start	328	End	2795
Name	OJ000310_35.0424.C19.o1.tc	Method	TBLASTX:Cress
Start	1405	End	2757
GI	none	Score	170
Exons	1405..1536, 1407..1535, 1740..1871, 1746..1865, 1778..1870, 1964..2002, 2083..2163, 2084..2164, 2084..2164, 2240..2374, 2247..2372, 2249..2374, 2521..2598, 2677..2757		

Seq. No.	58003	Seq. ID	OJ000310_35.0424.C19
Gene No.	121277	Strand	+
Start	328	End	2795
Name	OJ000310_35.0424.C19.o1.ts	Method	TBLASTX:Soybean
Start	1405	End	2748
GI	none	Score	172
Exons	1405..1536, 1405..1536, 1406..1537, 1740..1871, 1778..1870, 1958..1996, 2082..2153, 2083..2163, 2084..2164, 2244..2369, 2247..2372, 2249..2380, 2249..2374, 2521..2598, 2677..2748		

Seq. No.	58004	Seq. ID	OJ000310_35.0424.C23
Gene No.	121278	Strand	+
Start	1	End	1631
Name	OJ000310_35.0424.C23.o1.np	Method	AAT/NAP
Start	1	End	1631
GI	2293358	Score	217
Exons	1..329, 1029..1394, 1604..1631		
GI Descrip.	(D87669) polyphenol oxidase [Malus domestica]		

Seq. No.	58004	Seq. ID	OJ000310_35.0424.C23
Gene No.	121278	Strand	+
Start	1	End	1631
Name	OJ000310_35.0424.C23.o2.np	Method	AAT/NAP
Start	1	End	1631
GI	7209776	Score	193
Exons	1..33, 90..329, 1029..1469, 1592..1631		
GI Descrip.	(AB038994) polyphenol oxidase I [Ipomoea batatas]		

Seq. No.	58004	Seq. ID	OJ000310_35.0424.C23
Gene No.	121278	Strand	+
Start	1	End	1631
Name	OJ000310_35.0424.C23.o1.tm	Method	TBLASTX:Maize
Start	86	End	329
GI	none	Score	74
Exons	86..139, 87..140, 134..184, 148..183, 186..260, 187..261, 188..301, 201..284, 269..328, 270..329		

Seq. No.	58004	Seq. ID	OJ000310_35.0424.C23
Gene No.	121278	Strand	+

Start	1	End	1631
Name	OJ000310_35.0424.C23.o1.ts	Method	TBLASTX:Soybean
Start	87	End	1395
GI	none	Score	49
Exons	87..140, 137..184, 145..183, 184..261, 186..260, 270..329, 1236..1316, 1360..1395		

Seq. No.	58004	Seq. ID	OJ000310_35.0424.C23
Gene No.	121278	Strand	+
Start	1	End	1631
Name	OJ000310_35.0424.C23.o1.gs	Method	GENSCAN
Start	144	End	1518
GI	none	Score	.66
Exons	144..328, 578..662, 1029..1170, 1210..1370, 1409..1518		

Seq. No.	58004	Seq. ID	OJ000310_35.0424.C23
Gene No.	121278	Strand	+
Start	1	End	1631
Name	OJ000310_35.0424.C23.o2.tm	Method	TBLASTX:Maize
Start	503	End	973
GI	none	Score	77
Exons	503..724, 790..969, 881..973		

Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121279	Strand	+
Start	337	End	642
Name	OJ000310_35.0424.C24.o1.gs	Method	GENSCAN
Start	337	End	642
GI	none	Score	.99
Exons	337..642		

Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121280	Strand	+
Start	1045	End	3540
Name	OJ000310_35.0424.C24.o2.gs	Method	GENSCAN
Start	1045	End	3540
GI	none	Score	.88
Exons	1045..1089, 3424..3540		

Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121281	Strand	+
Start	4377	End	8330
Name	OJ000310_35.0424.C24.o2.np	Method	AAT/NAP
Start	4377	End	8330
GI	1172584	Score	528
Exons	4377..4999, 5691..5900, 8267..8330		
GI Descrip.	POLYPHENOL OXIDASE PRECURSOR (PPO) (CATECHOL OXIDASE) gi|1076478|pir||S52984 catechol oxidase (EC 1.10.3.1) precursor - apple tree gi|507280 (L29450) polyphenol oxidase [Malus domestica]		

Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121281	Strand	+
Start	4377	End	8330
Name	OJ000310_35.0424.C24.o1.gp	Method	AAT/GAP
Start	5978	End	6285
GI	5816559	Score	498

Exons	5978..6285		
GI Descrip.	4680178/gb|AF111709.1|AF111709 1.0e-108 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		
Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121281	Strand	+
Start	4377	End	8330
Name	OJ000310_35.0424.C24.o3.np	Method	AAT/NAP
Start	7365	End	8258
GI	5902448	Score	1564
Exons	7365..8258		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		
Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121282	Strand	-
Start	1317	End	3116
Name	OJ000310_35.0424.C24.o1.np	Method	AAT/NAP
Start	1317	End	3116
GI	7510076	Score	137
Exons	1317..1567, 2916..3116		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		
Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121283	Strand	
Start	4764	End	5856
Name	OJ000310_35.0424.C24.o1.tm	Method	TBLASTX:Maize
Start	4764	End	5856
GI	none	Score	126
Exons	4764..4931, 4965..5000, 5673..5840, 5689..5856, 5692..5835, 5693..5815, 5813..5833		
Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121283	Strand	
Start	4764	End	5856
Name	OJ000310_35.0424.C24.o1.ts	Method	TBLASTX:Soybean
Start	4793	End	5751
GI	none	Score	275
Exons	4793..4990, 4794..5003, 5689..5751		
Seq. No.	58005	Seq. ID	OJ000310_35.0424.C24
Gene No.	121284	Strand	
Start	7485	End	7775
Name	OJ000310_35.0424.C24.o1.tw	Method	TBLASTX:Wheat
Start	7485	End	7775
GI	none	Score	221
Exons	7485..7775		
Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121285	Strand	+
Start	6970	End	7488
Name	OJ000310_35.0424.C25.o5.gp	Method	AAT/GAP
Start	6970	End	7488
GI	uC-osf1cyp083g04a1	Score	1006
Exons	6970..7488		
GI Descrip.	'3057120 3.0e-53 (AF023159) starch synthase DULL1 [Zea mays]'		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121286	Strand	+
Start	11907	End	12369
Name	OJ000310_35.0424.C25.o6.gp	Method	AAT/GAP
Start	11907	End	12369
GI	none	Score	914
Exons	11907..12369		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121287	Strand	+
Start	15785	End	30814
Name	OJ000310_35.0424.C25.o5.np	Method	AAT/NAP
Start	15785	End	30814
GI	3914374	Score	894
Exons	15785..15922, 29626..29799, 29887..30036, 30141..30239, 30356..30448, 30543..30814		
GI Descrip.	1-ACYL-SN-GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE (1-AGP ACYLTRANSFERASE) (1-AGPAT) (LYSOPHOSPHATIDIC ACID ACYLTRANSFERASE) (LPAAT) gi|1098605|gb|AAC49119.1| (U29657) lysophosphatidic acid acyltransferase [Cocos nucifera] gi|1586836|prf||2204401A 1-acyl-sn-glycerol-3-phosphate acyltransferase [Cocos nucifera]		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121287	Strand	+
Start	15785	End	30814
Name	OJ000310_35.0424.C25.o5.gs	Method	GENSCAN
Start	16893	End	25018
GI	none	Score	.73
Exons	16893..16940, 17427..17573, 18595..18672, 20265..21225, 22145..22835, 22939..23089, 23548..23622, 24472..24592, 24834..25018		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121287	Strand	+
Start	15785	End	30814
Name	OJ000310_35.0424.C25.o7.gs	Method	GENSCAN
Start	29530	End	30809
GI	none	Score	.96
Exons	29530..29799, 29887..30036, 30141..30239, 30356..30448, 30543..30809		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121288	Strand	-
Start	1	End	794
Name	OJ000310_35.0424.C25.o1.gp	Method	AAT/GAP
Start	1	End	353
GI	3762097	Score	694
Exons	1..353		
GI Descrip.	3057120 3.0e-53 (AF023159) starch synthase DULL1 [Zea mays]		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121288	Strand	-
Start	1	End	794
Name	OJ000310_35.0424.C25.o2.np	Method	AAT/NAP
Start	1	End	794
GI	7489826	Score	976

Exons	1..794		
GI Descrip.	starch synthase DULL1 - maize gi|3057120|gb|AAC14014.1| (AF023159) starch synthase DULL1 [Zea mays]		
Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121288	Strand	-
Start	1	End	794
Name	OJ000310_35.0424.C25.o1.np	Method	AAT/NAP
Start	1	End	794
GI	7489826	Score	979
Exons	1..794		
GI Descrip.	starch synthase DULL1 - maize gi|3057120|gb|AAC14014.1| (AF023159) starch synthase DULL1 [Zea mays]		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121288	Strand	-
Start	1	End	794
Name	OJ000310_35.0424.C25.o2.gp	Method	AAT/GAP
Start	548	End	782
GI	LIB3431-061-P1-K1-G12	Score	428
Exons	548..782		
GI Descrip.	'3057120 2.0e-22 (AF023159) starch synthase DULL1 [Zea mays]'		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121289	Strand	-
Start	1292	End	1670
Name	OJ000310_35.0424.C25.o3.gp	Method	AAT/GAP
Start	1292	End	1670
GI	1631927	Score	542
Exons	1292..1534, 1625..1670		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121290	Strand	-
Start	2233	End	2443
Name	OJ000310_35.0424.C25.o4.gp	Method	AAT/GAP
Start	2233	End	2443
GI	LIB3479-005-Q6-K1-D11	Score	390
Exons	2233..2443		
GI Descrip.	'4388818/gb|AAD19773| 3.0e-40 (AC006528) putative pol polyprotein with a Zn-finger CCHC type domain (prosite:QDOC50158) and a DDE integrase signature motif [Arabidopsis thaliana]'		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121291	Strand	-
Start	5790	End	6203
Name	OJ000310_35.0424.C25.o2.gs	Method	GENSCAN
Start	5790	End	6203
GI	none	Score	.99
Exons	5790..6203		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121292	Strand	-
Start	7229	End	10151
Name	OJ000310_35.0424.C25.o3.gs	Method	GENSCAN
Start	7229	End	10151
GI	none	Score	.69

Exons	7229..8092, 8176..8259, 8427..8502, 9659..9840, 9878..10010, 10030..10151		
Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121292	Strand	-
Start	7229	End	10151
Name	OJ000310_35.0424.C25.o3.np	Method	AAT/NAP
Start	7601	End	10025
GI	7363292	Score	682
Exons	7601..8076, 8148..8259, 8427..8515, 8605..8746, 9130..9182, 9980..10025		
GI Descrip.	(AP001552) ESTs D15336(C0474),C98053(C0474) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana DNA chromosome 4, ESSA I contig fragment No. 9; hypothetical protein. (Z97344) [Oryza sativa]		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121293	Strand	-
Start	12219	End	15837
Name	OJ000310_35.0424.C25.o4.gs	Method	GENSCAN
Start	12219	End	15837
GI	none	Score	.86
Exons	12219..13805, 13885..14010, 15460..15837		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121293	Strand	-
Start	12219	End	15837
Name	OJ000310_35.0424.C25.o7.gp	Method	AAT/GAP
Start	12559	End	12983
GI	LIB3432-019-P1-K1-E9	Score	818
Exons	12559..12983		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 1.0e-108 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121293	Strand	-
Start	12219	End	15837
Name	OJ000310_35.0424.C25.o4.np	Method	AAT/NAP
Start	13087	End	15420
GI	6006900	Score	365
Exons	13087..13649, 15339..15420		
GI Descrip.	(AC008153) unknown protein [Arabidopsis thaliana]		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121294	Strand	-
Start	25824	End	26105
Name	OJ000310_35.0424.C25.o6.gs	Method	GENSCAN
Start	25824	End	26105
GI	none	Score	.8
Exons	25824..26105		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o7.tm	Method	TBLASTX:Maize
Start	75	End	785

GI	none	Score	179
Exons	75..200, 588..785, 592..741, 594..785		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o5.tm	Method	TBLASTX:Maize
Start	334	End	587
GI	none	Score	206
Exons	334..576, 374..580, 393..575, 393..587, 394..576, 395..580		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o8.tm	Method	TBLASTX:Maize
Start	1124	End	1453
GI	none	Score	35
Exons	1124..1144, 1151..1195, 1160..1270, 1167..1343, 1294..1368, 1299..1448, 1301..1453, 1311..1448, 1382..1453		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o3.tm	Method	TBLASTX:Maize
Start	7643	End	8720
GI	none	Score	248
Exons	7643..8080, 7743..8081, 7822..8085, 8185..8268, 8186..8260, 8200..8271, 8303..8341, 8427..8504, 8427..8504, 8604..8720, 8618..8719		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o1.tc	Method	TBLASTX:Cress
Start	7655	End	8728
GI	none	Score	256
Exons	7655..8083, 7743..8078, 8176..8268, 8180..8260, 8616..8720, 8618..8728		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o1.ts	Method	TBLASTX:Soybean
Start	7664	End	8726
GI	none	Score	262
Exons	7664..8080, 7743..8081, 8171..8260, 8185..8268, 8427..8519, 8618..8719, 8625..8726		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o3.tw	Method	TBLASTX:Wheat
Start	7712	End	7961
GI	none	Score	189
Exons	7712..7954, 7746..7961		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25

Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o6.tm	Method	TBLASTX:Maize
Start	10003	End	10221
GI	none	Score	316
Exons	10003..10038, 10015..10221, 10044..10211		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o3.ts	Method	TBLASTX:Soybean
Start	10015	End	10221
GI	none	Score	228
Exons	10015..10221, 10053..10211		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o2.tm	Method	TBLASTX:Maize
Start	12079	End	12953
GI	none	Score	68
Exons	12079..12153, 12080..12154, 12121..12198, 12150..12215, 12156..12200, 12220..12594, 12261..12671, 12266..12691, 12294..12671, 12684..12953, 12685..12948, 12687..12953		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o1.tw	Method	TBLASTX:Wheat
Start	12280	End	12672
GI	none	Score	56
Exons	12280..12336, 12280..12312, 12282..12320, 12302..12670, 12309..12671, 12321..12671, 12322..12672		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o1.tm	Method	TBLASTX:Maize
Start	12954	End	14013
GI	none	Score	125
Exons	12954..13103, 12954..13103, 12955..13104, 12955..13104, 13092..13808, 13096..13194, 13106..13282, 13251..13349, 13328..13714, 13384..13764, 13407..13808, 13871..14011, 13879..14013, 13883..14011		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o3.tc	Method	TBLASTX:Cress
Start	13092	End	13292
GI	none	Score	82
Exons	13092..13271, 13097..13216, 13118..13291, 13254..13292		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o2.ts	Method	TBLASTX:Soybean

Start	13109	End	13430
GI	none	Score	85
Exons	13109..13228, 13116..13430		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o2.tc	Method	TBLASTX:Cress
Start	13302	End	13622
GI	none	Score	45
Exons	13302..13622, 13308..13349, 13449..13619		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o8.gs	Method	GENSCAN
Start	31572	End	33397
GI	none	Score	.66
Exons	31572..31594, 32179..32271, 32375..32789, 33047..33397		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o4.tm	Method	TBLASTX:Maize
Start	31854	End	33406
GI	none	Score	161
Exons	31854..32075, 31870..32076, 31876..32073, 32166..32237, 32174..32239, 32175..32243, 32375..32530, 32376..32528, 32380..32529, 32532..32558, 32556..32759, 32573..32791, 32586..32735, 32590..32736, 32733..32768, 32737..32772, 33045..33398, 33045..33398, 33047..33406, 33047..33406		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o6.np	Method	AAT/NAP
Start	31876	End	34319
GI	7485343	Score	222
Exons	31876..32074, 32179..32251, 32363..32789, 33047..33397, 34263..34319		
GI Descrip.	hypothetical protein F10M23.350 - Arabidopsis thaliana gi|4455224|emb|CAB36547.1| (AL035440) putative protein [Arabidopsis thaliana] gi|7269554|emb|CAB79556.1| (AL161566) putative protein [Arabidopsis thaliana]		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25
Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o2.tw	Method	TBLASTX:Wheat
Start	32556	End	33286
GI	none	Score	122
Exons	32556..32726, 32557..32724, 32585..32749, 32586..32726, 32591..32740, 32721..32768, 32721..32789, 32728..32790, 32731..32790, 33045..33284, 33045..33284, 33047..33286, 33047..33286		

Seq. No.	58006	Seq. ID	OJ000310_35.0424.C25

Gene No.	121295	Strand	-
Start	31572	End	34319
Name	OJ000310_35.0424.C25.o8.gp	Method	AAT/GAP
Start	32744	End	33414
GI	uC-osf1M202016g08b1	Score	754
Exons	32744..32789, 33047..33414		
GI Descrip.	'3057120 3.0e-53 (AF023159) starch synthase DULL1 [Zea mays]'		

Seq. No.	58007	Seq. ID	OJ000310_35.0424.C26
Gene No.	121296	Strand	+
Start	37	End	547
Name	OJ000310_35.0424.C26.o1.gs	Method	GENSCAN
Start	37	End	547
GI	none	Score	.43
Exons	37..120, 212..388, 470..547		

Seq. No.	58007	Seq. ID	OJ000310_35.0424.C26
Gene No.	121297	Strand	-
Start	1	End	803
Name	OJ000310_35.0424.C26.o1.np	Method	AAT/NAP
Start	1	End	803
GI	999542	Score	355
Exons	1..131, 249..373, 466..543, 644..690, 781..803		
GI Descrip.	Chain A, Glycolate Oxidase (E.C.1.1.3.15) Mutant With Tyr 24 Replaced By Phe (Y24f) gi|999543|pdb|1GYL|B Chain B, Glycolate Oxidase (E.C.1.1.3.15) Mutant With Tyr 24 Replaced By Phe (Y24f)		

Seq. No.	58007	Seq. ID	OJ000310_35.0424.C26
Gene No.	121297	Strand	-
Start	1	End	803
Name	OJ000310_35.0424.C26.o1.tc	Method	TBLASTX:Cress
Start	59	End	544
GI	none	Score	79
Exons	59..133, 65..133, 69..152, 246..377, 248..373, 458..544, 460..543		

Seq. No.	58007	Seq. ID	OJ000310_35.0424.C26
Gene No.	121297	Strand	-
Start	1	End	803
Name	OJ000310_35.0424.C26.o1.gp	Method	AAT/GAP
Start	65	End	803
GI	LIB3433-023-P1-K1-H7	Score	541
Exons	65..131, 249..373, 466..543, 644..690, 781..803		
GI Descrip.	'228403/prf||1803516A 2.0e-59 glycolate oxidase [Lens culinaris]'		

Seq. No.	58007	Seq. ID	OJ000310_35.0424.C26
Gene No.	121297	Strand	-
Start	1	End	803
Name	OJ000310_35.0424.C26.o1.tm	Method	TBLASTX:Maize
Start	65	End	802
GI	none	Score	102
Exons	65..133, 66..134, 66..134, 67..135, 244..372, 246..377, 248..373, 460..543, 461..547, 464..544, 639..689, 779..802		

Seq. No.	58007	Seq. ID	OJ000310_35.0424.C26
Gene No.	121297	Strand	-

Start	1	End	803
Name	OJ000310_35.0424.C26.o1.ts	Method	TBLASTX:Soybean
Start	65	End	559
GI	none	Score	77
Exons	65..133, 66..134, 67..135, 240..371, 246..374, 248..373, 251..376, 458..559, 460..555		

Seq. No.	58008	Seq. ID	OJ000310_35.0424.C29
Gene No.	121298	Strand	+
Start	1	End	1066
Name	OJ000310_35.0424.C29.o1.np	Method	AAT/NAP
Start	1	End	1066
GI	4531444	Score	808
Exons	1..167, 253..355, 465..562, 665..1066		
GI Descrip.	(AC006224) putative amine oxidase [Arabidopsis thaliana]		

Seq. No.	58008	Seq. ID	OJ000310_35.0424.C29
Gene No.	121298	Strand	+
Start	1	End	1066
Name	OJ000310_35.0424.C29.o1.tm	Method	TBLASTX:Maize
Start	68	End	1066
GI	none	Score	124
Exons	68..166, 79..168, 79..174, 245..355, 250..357, 250..351, 252..356, 456..563, 456..560, 464..562, 650..1066, 662..727, 663..1064, 673..1065		

Seq. No.	58008	Seq. ID	OJ000310_35.0424.C29
Gene No.	121298	Strand	+
Start	1	End	1066
Name	OJ000310_35.0424.C29.o1.ts	Method	TBLASTX:Soybean
Start	79	End	1066
GI	none	Score	163
Exons	79..171, 250..363, 251..355, 441..575, 455..583, 456..563, 662..997, 663..1064, 663..1064, 776..1066		

Seq. No.	58008	Seq. ID	OJ000310_35.0424.C29
Gene No.	121298	Strand	+
Start	1	End	1066
Name	OJ000310_35.0424.C29.o1.gs	Method	GENSCAN
Start	82	End	707
GI	none	Score	.87
Exons	82..167, 253..355, 465..562, 665..707		

Seq. No.	58008	Seq. ID	OJ000310_35.0424.C29
Gene No.	121298	Strand	+
Start	1	End	1066
Name	OJ000310_35.0424.C29.o1.tc	Method	TBLASTX:Cress
Start	114	End	1007
GI	none	Score	151
Exons	114..173, 250..357, 251..355, 455..562, 456..563, 457..567, 464..562, 662..997, 663..1007, 843..1004		

Seq. No.	58008	Seq. ID	OJ000310_35.0424.C29
Gene No.	121298	Strand	+
Start	1	End	1066
Name	OJ000310_35.0424.C29.o1.tw	Method	TBLASTX:Wheat
Start	275	End	743

GI	none	Score	116
Exons	275..355, 456..563, 479..562, 663..743		

Seq. No.	58008	Seq. ID	OJ000310_35.0424.C29
Gene No.	121298	Strand	+
Start	1	End	1066
Name	OJ000310_35.0424.C29.o1.gp	Method	AAT/GAP
Start	674	End	1010
GI	569902	Score	670
Exons	674..1010		
GI Descrip.	4531444/gb|AAD22129.1|AC006224_11 2.0e-47 (AC006224) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	58009	Seq. ID	OJ000330_37.0420.C1
Gene No.	121299	Strand	+
Start	1161	End	1310
Name	OJ000330_37.0420.C1.o1.gs	Method	GENSCAN
Start	1161	End	1310
GI	none	Score	.49
Exons	1161..1310		

Seq. No.	58009	Seq. ID	OJ000330_37.0420.C1
Gene No.	121300	Strand	-
Start	1705	End	3093
Name	OJ000330_37.0420.C1.o2.gs	Method	GENSCAN
Start	1705	End	3087
GI	none	Score	.84
Exons	1705..1914, 2091..2252, 2797..3087		

Seq. No.	58009	Seq. ID	OJ000330_37.0420.C1
Gene No.	121300	Strand	-
Start	1705	End	3093
Name	OJ000330_37.0420.C1.o1.gp	Method	AAT/GAP
Start	1819	End	3093
GI	none	Score	994
Exons	1819..1914, 2091..2220, 2797..3093		

Seq. No.	58010	Seq. ID	OJ000330_37.0420.C2
Gene No.	121301	Strand	+
Start	410	End	666
Name	OJ000330_37.0420.C2.o1.gs	Method	GENSCAN
Start	410	End	666
GI	none	Score	.77
Exons	410..482, 566..666		

Seq. No.	58010	Seq. ID	OJ000330_37.0420.C2
Gene No.	121302	Strand	+
Start	1669	End	4106
Name	OJ000330_37.0420.C2.o1.np	Method	AAT/NAP
Start	1669	End	4106
GI	4263820	Score	610
Exons	1669..2056, 2526..2703, 3115..3259, 4050..4106		
GI Descrip.	(AC006067) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58010	Seq. ID	OJ000330_37.0420.C2
Gene No.	121303	Strand	-
Start	28	End	4106

Name	OJ000330_37.0420.C2.o2.np	Method	AAT/NAP
Start	28	End	4106
GI	2583130	Score	152
Exons	28..59, 3540..4106		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	58010	Seq. ID	OJ000330_37.0420.C2
Gene No.	121303	Strand	-
Start	28	End	4106
Name	OJ000330_37.0420.C2.o2.gs	Method	GENSCAN
Start	1339	End	3932
GI	none	Score	.44
Exons	1339..2127, 2549..2694, 3546..3932		

Seq. No.	58010	Seq. ID	OJ000330_37.0420.C2
Gene No.	121303	Strand	-
Start	28	End	4106
Name	OJ000330_37.0420.C2.o1.ts	Method	TBLASTX:Soybean
Start	1819	End	2593
GI	none	Score	56
Exons	1819..1860, 1885..1941, 1891..2055, 1905..2069, 1955..2077, 2522..2593		

Seq. No.	58010	Seq. ID	OJ000330_37.0420.C2
Gene No.	121303	Strand	-
Start	28	End	4106
Name	OJ000330_37.0420.C2.o1.tm	Method	TBLASTX:Maize
Start	2627	End	3259
GI	none	Score	121
Exons	2627..2704, 2629..2706, 2630..2704, 3111..3257, 3112..3258, 3113..3259		

Seq. No.	58011	Seq. ID	OJ000330_37.0420.C4
Gene No.	121304	Strand	+
Start	914	End	2046
Name	OJ000330_37.0420.C4.o1.gs	Method	GENSCAN
Start	914	End	2046
GI	none	Score	.42
Exons	914..991, 1517..1759, 1885..2046		

Seq. No.	58011	Seq. ID	OJ000330_37.0420.C4
Gene No.	121305	Strand	-
Start	2866	End	3531
Name	OJ000330_37.0420.C4.o2.gs	Method	GENSCAN
Start	2866	End	3531
GI	none	Score	.68
Exons	2866..3143, 3231..3531		

Seq. No.	58012	Seq. ID	OJ000330_37.0420.C5
Gene No.	121306	Strand	+
Start	546	End	678
Name	OJ000330_37.0420.C5.o1.gs	Method	GENSCAN
Start	546	End	678
GI	none	Score	.56
Exons	546..678		

Seq. No.	58013	Seq. ID	OJ000330_37.0420.C6
Gene No.	121307	Strand	+
Start	63	End	716
Name	OJ000330_37.0420.C6.o1.tm	Method	TBLASTX:Maize
Start	19	End	713
GI	none	Score	79
Exons	19..99, 20..100, 101..277, 101..184, 115..213, 382..507, 396..506, 412..507, 536..706, 537..713, 571..708		

Seq. No.	58013	Seq. ID	OJ000330_37.0420.C6
Gene No.	121307	Strand	+
Start	63	End	716
Name	OJ000330_37.0420.C6.o1.gs	Method	GENSCAN
Start	63	End	716
GI	none	Score	.68
Exons	63..290, 388..716		

Seq. No.	58014	Seq. ID	OJ000330_37.0420.C7
Gene No.	121308	Strand	+
Start	205	End	706
Name	OJ000330_37.0420.C7.o1.gs	Method	GENSCAN
Start	205	End	706
GI	none	Score	.58
Exons	205..310, 632..706		

Seq. No.	58014	Seq. ID	OJ000330_37.0420.C7
Gene No.	121309	Strand	+
Start	1232	End	2624
Name	OJ000330_37.0420.C7.o2.gs	Method	GENSCAN
Start	1232	End	2624
GI	none	Score	.85
Exons	1232..1365, 1762..2624		

Seq. No.	58014	Seq. ID	OJ000330_37.0420.C7
Gene No.	121310	Strand	-
Start	651	End	1041
Name	OJ000330_37.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	165	End	790
GI	none	Score	176
Exons	165..311, 167..310, 182..322, 626..790		

Seq. No.	58014	Seq. ID	OJ000330_37.0420.C7
Gene No.	121310	Strand	-
Start	651	End	1041
Name	OJ000330_37.0420.C7.o1.gp	Method	AAT/GAP
Start	651	End	1041
GI	uC-osflcyp141e06a1	Score	704
Exons	651..1041		
GI Descrip.	'4099436/gb|U87250|MVU87250 3.0e-67 Mustela vison GT dinucleotide repeat, chromosome 2,3,5 and 7 centromeric'		

Seq. No.	58014	Seq. ID	OJ000330_37.0420.C7
Gene No.	121311	Strand	
Start	2048	End	2599
Name	OJ000330_37.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	2048	End	2599
GI	none	Score	97

Exons	2048..2206, 2213..2458, 2218..2343, 2444..2599, 2446..2595		
Seq. No.	58015	Seq. ID	OJ000330_37.0420.C9
Gene No.	121312	Strand	-
Start	423	End	1676
Name	OJ000330_37.0420.C9.o1.gs	Method	GENSCAN
Start	423	End	1676
GI	none	Score	.44
Exons	423..532, 1103..1130, 1383..1457, 1569..1676		
Seq. No.	58016	Seq. ID	OJ000330_37.0420.C10
Gene No.	121313	Strand	+
Start	1	End	6042
Name	OJ000330_37.0420.C10.o1.np	Method	AAT/NAP
Start	1	End	5974
GI	7485803	Score	28
Exons	1..142, 4466..4603, 5924..5974		
GI Descrip.	hypothetical protein F19I3.15 - Arabidopsis thaliana gi|3033388|gb|AAC12832.1| (AC004238) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58016	Seq. ID	OJ000330_37.0420.C10
Gene No.	121313	Strand	+
Start	1	End	6042
Name	OJ000330_37.0420.C10.o1.gs	Method	GENSCAN
Start	58	End	1391
GI	none	Score	.48
Exons	58..125, 1322..1391		
Seq. No.	58016	Seq. ID	OJ000330_37.0420.C10
Gene No.	121313	Strand	+
Start	1	End	6042
Name	OJ000330_37.0420.C10.o2.gs	Method	GENSCAN
Start	3674	End	6042
GI	none	Score	.6
Exons	3674..4603, 5423..5552, 5941..6042		
Seq. No.	58017	Seq. ID	OJ000330_37.0420.C11
Gene No.	121314	Strand	+
Start	1	End	8205
Name	OJ000330_37.0420.C11.o1.np	Method	AAT/NAP
Start	1	End	1377
GI	7485803	Score	120
Exons	1..147, 291..367, 1060..1134, 1257..1377		
GI Descrip.	hypothetical protein F19I3.15 - Arabidopsis thaliana gi|3033388|gb|AAC12832.1| (AC004238) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58017	Seq. ID	OJ000330_37.0420.C11
Gene No.	121314	Strand	+
Start	1	End	8205
Name	OJ000330_37.0420.C11.o2.np	Method	AAT/NAP
Start	1	End	8205
GI	4633273	Score	63
Exons	1..57, 2576..2640, 6369..6514, 6600..6803, 8068..8205		
GI Descrip.	(AF115549) Wiskott-Aldrich Syndrome protein [Homo sapiens]		

Seq. No.	58017	Seq. ID	OJ000330_37.0420.C11
Gene No.	121314	Strand	+
Start	1	End	8205
Name	OJ000330_37.0420.C11.o1.gs	Method	GENSCAN
Start	2	End	1374
GI	none	Score	.59
Exons	2..187, 255..402, 1047..1134, 1257..1374		

Seq. No.	58017	Seq. ID	OJ000330_37.0420.C11
Gene No.	121315	Strand	-
Start	6348	End	6694
Name	OJ000330_37.0420.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	1137
GI	none	Score	147
Exons	2..121, 43..120, 122..181, 129..167, 207..404, 235..414, 255..425, 1043..1078, 1071..1136, 1075..1137, 1076..1135		

Seq. No.	58017	Seq. ID	OJ000330_37.0420.C11
Gene No.	121315	Strand	-
Start	6348	End	6694
Name	OJ000330_37.0420.C11.o2.tm	Method	TBLASTX:Maize
Start	1257	End	1526
GI	none	Score	123
Exons	1257..1361, 1257..1373, 1258..1398, 1258..1377, 1413..1460, 1416..1460, 1417..1524, 1509..1526		

Seq. No.	58017	Seq. ID	OJ000330_37.0420.C11
Gene No.	121315	Strand	-
Start	6348	End	6694
Name	OJ000330_37.0420.C11.o1.gp	Method	AAT/GAP
Start	6348	End	6694
GI	5004069	Score	673
Exons	6348..6694		

Seq. No.	58018	Seq. ID	OJ000330_37.0420.C13
Gene No.	121316	Strand	-
Start	114	End	267
Name	OJ000330_37.0420.C13.o1.gs	Method	GENSCAN
Start	114	End	267
GI	none	Score	.44
Exons	114..267		

Seq. No.	58019	Seq. ID	OJ000330_37.0420.C14
Gene No.	121317	Strand	+
Start	308	End	1521
Name	OJ000330_37.0420.C14.o1.gs	Method	GENSCAN
Start	308	End	1521
GI	none	Score	.44
Exons	308..355, 1306..1521		

Seq. No.	58019	Seq. ID	OJ000330_37.0420.C14
Gene No.	121318	Strand	+
Start	2210	End	3123
Name	OJ000330_37.0420.C14.o1.np	Method	AAT/NAP
Start	2210	End	3123
GI	6721512	Score	93
Exons	2210..2329, 2357..2491, 3094..3123		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	58019	Seq. ID	OJ000330_37.0420.C14
Gene No.	121319	Strand	-
Start	2127	End	2912
Name	OJ000330_37.0420.C14.o2.gs	Method	GENSCAN
Start	2127	End	2912
GI	none	Score	.82
Exons	2127..2264, 2718..2912		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121320	Strand	+
Start	260	End	3902
Name	OJ000330_37.0420.C15.o1.gs	Method	GENSCAN
Start	260	End	3902
GI	none	Score	.75
Exons	260..369, 661..796, 1096..1735, 2028..3439, 3480..3902		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121320	Strand	+
Start	260	End	3902
Name	OJ000330_37.0420.C15.o1.np	Method	AAT/NAP
Start	680	End	3899
GI	6907089	Score	4132
Exons	680..1931, 2028..3899		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121321	Strand	-
Start	4529	End	10128
Name	OJ000330_37.0420.C15.o2.np	Method	AAT/NAP
Start	4529	End	10128
GI	7228457	Score	7941
Exons	4529..6079, 6146..7105, 7228..8062, 8126..10128		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o6.tm	Method	TBLASTX:Maize
Start	4526	End	4669
GI	none	Score	119
Exons	4526..4669, 4530..4664		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o8.tw	Method	TBLASTX:Wheat
Start	4538	End	5140
GI	none	Score	66
Exons	4538..4663, 4545..4664, 4838..5140, 4857..5135		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231

Name	OJ000330_37.0420.C15.o4.tw	Method	TBLASTX:Wheat
Start	5141	End	5522
GI	none	Score	246
Exons	5141..5521, 5172..5522		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o3.tm	Method	TBLASTX:Maize
Start	5336	End	5659
GI	none	Score	228
Exons	5336..5659, 5349..5642		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o10.tw	Method	TBLASTX:Wheat
Start	5852	End	6164
GI	none	Score	65
Exons	5852..6112, 5988..6164		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o3.ts	Method	TBLASTX:Soybean
Start	5912	End	6478
GI	5666795	Score	68
Exons	5912..6112, 6167..6304, 6380..6478		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o5.tw	Method	TBLASTX:Wheat
Start	6167	End	6625
GI	none	Score	88
Exons	6167..6316, 6168..6305, 6360..6536, 6377..6601, 6404..6625		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	7034	End	7435
GI	none	Score	89
Exons	7034..7435, 7245..7388		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o2.tw	Method	TBLASTX:Wheat
Start	7064	End	7484
GI	none	Score	289
Exons	7064..7483, 7089..7484		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231

Name	OJ000330_37.0420.C15.o4.tm	Method	TBLASTX:Maize
Start	7157	End	7541
GI	none	Score	229
Exons	7157..7540, 7176..7541		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o2.tm	Method	TBLASTX:Maize
Start	7567	End	7924
GI	none	Score	90
Exons	7567..7803, 7568..7924, 7578..7889		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o1.tw	Method	TBLASTX:Wheat
Start	7592	End	8055
GI	none	Score	357
Exons	7592..8053, 7599..8054, 7612..8055		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o2.ts	Method	TBLASTX:Soybean
Start	7649	End	8014
GI	none	Score	117
Exons	7649..7783, 7790..8014		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o3.tw	Method	TBLASTX:Wheat
Start	8219	End	8705
GI	none	Score	161
Exons	8219..8704, 8250..8510, 8532..8705		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o7.tw	Method	TBLASTX:Wheat
Start	9443	End	9781
GI	none	Score	99
Exons	9443..9700, 9477..9716, 9683..9781, 9684..9761		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o5.tm	Method	TBLASTX:Maize
Start	9545	End	9793
GI	none	Score	105
Exons	9545..9793, 9546..9758		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o1.tm	Method	TBLASTX:Maize

Start	14448	End	14838
GI	none	Score	257
Exons	14448..14636, 14464..14838, 14465..14830		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o3.np	Method	AAT/NAP
Start	14454	End	15231
GI	6997177	Score	415
Exons	14454..14908, 14997..15231		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o9.tw	Method	TBLASTX:Wheat
Start	14461	End	14623
GI	none	Score	147
Exons	14461..14622, 14468..14623		

Seq. No.	58020	Seq. ID	OJ000330_37.0420.C15
Gene No.	121322	Strand	-
Start	14454	End	15231
Name	OJ000330_37.0420.C15.o6.tw	Method	TBLASTX:Wheat
Start	14624	End	15088
GI	none	Score	158
Exons	14624..14905, 14626..14910, 14993..15088		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121323	Strand	+
Start	17	End	199
Name	OJ000330_37.0420.C16.o1.gs	Method	GENSCAN
Start	17	End	199
GI	none	Score	.68
Exons	17..74, 156..199		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121324	Strand	-
Start	1038	End	4369
Name	OJ000330_37.0420.C16.o2.gs	Method	GENSCAN
Start	1038	End	2288
GI	none	Score	.99
Exons	1038..1622, 1764..1892, 2004..2288		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121324	Strand	-
Start	1038	End	4369
Name	OJ000330_37.0420.C16.o1.np	Method	AAT/NAP
Start	1041	End	3330
GI	4926834	Score	612
Exons	1041..1636, 1727..1892, 2004..2141, 3298..3330		
GI Descrip.	(AC004135) T17H7.19 [Arabidopsis thaliana]		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121324	Strand	-
Start	1038	End	4369

Name	OJ000330_37.0420.C16.o2.np	Method	AAT/NAP
Start	3197	End	4369
GI	4263820	Score	147
Exons	3197..3359, 4310..4369		
GI Descrip.	(AC006067) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121325	Strand	-
Start	4304	End	4369
Name	OJ000330_37.0420.C16.o1.tc	Method	TBLASTX:Cress
Start	1006	End	2129
GI	none	Score	61
Exons	1006..1302, 1053..1328, 1320..1607, 1366..1491, 1746..1823, 2016..2129		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121325	Strand	-
Start	4304	End	4369
Name	OJ000330_37.0420.C16.o1.ts	Method	TBLASTX:Soybean
Start	1041	End	2147
GI	none	Score	54
Exons	1041..1301, 1066..1116, 1219..1302, 1386..1607, 1746..1829, 1863..1898, 2016..2147		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121325	Strand	-
Start	4304	End	4369
Name	OJ000330_37.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	1170	End	2144
GI	none	Score	75
Exons	1170..1307, 1404..1514, 1414..1515, 1615..1677, 1746..1898, 1759..1908, 1771..1902, 2008..2112, 2016..2144		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121325	Strand	-
Start	4304	End	4369
Name	OJ000330_37.0420.C16.o1.tw	Method	TBLASTX:Wheat
Start	1212	End	1607
GI	none	Score	89
Exons	1212..1319, 1404..1607, 1429..1593		

Seq. No.	58021	Seq. ID	OJ000330_37.0420.C16
Gene No.	121325	Strand	-
Start	4304	End	4369
Name	OJ000330_37.0420.C16.o1.gp	Method	AAT/GAP
Start	4304	End	4369
GI	5039029	Score	100
Exons	4304..4369		

Seq. No.	58022	Seq. ID	OJ000330_37.0420.C17
Gene No.	121326	Strand	+
Start	135	End	2231
Name	OJ000330_37.0420.C17.o1.gs	Method	GENSCAN
Start	135	End	2231
GI	none	Score	.61
Exons	135..289, 502..568, 1583..1696, 1730..1781, 1870..2231		

Seq. No.	58022	Seq. ID	OJ000330_37.0420.C17
Gene No.	121327	Strand	+
Start	4847	End	4973
Name	OJ000330_37.0420.C17.o2.np	Method	AAT/NAP
Start	4847	End	4973
GI	6630696	Score	180
Exons	4847..4973		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94 (P10978) [Oryza sativa]		

Seq. No.	58022	Seq. ID	OJ000330_37.0420.C17
Gene No.	121328	Strand	-
Start	1	End	1215
Name	OJ000330_37.0420.C17.o1.gp	Method	AAT/GAP
Start	1	End	1215
GI	5039029	Score	836
Exons	1..314, 1102..1215		

Seq. No.	58022	Seq. ID	OJ000330_37.0420.C17
Gene No.	121329	Strand	-
Start	1602	End	3378
Name	OJ000330_37.0420.C17.o1.np	Method	AAT/NAP
Start	1602	End	3094
GI	7406414	Score	180
Exons	1602..1853, 3051..3094		
GI Descrip.	(AL162873) putative protein [Arabidopsis thaliana]		

Seq. No.	58022	Seq. ID	OJ000330_37.0420.C17
Gene No.	121329	Strand	-
Start	1602	End	3378
Name	OJ000330_37.0420.C17.o1.tm	Method	TBLASTX:Maize
Start	2446	End	3378
GI	none	Score	47
Exons	2446..2559, 2448..2495, 2555..2827, 2555..2602, 2572..2634, 2590..2712, 2593..2676, 2696..2869, 2696..2842, 2700..2819, 2712..2816, 2720..2830, 2721..2876, 2726..2905, 2726..2875, 2746..2829, 2813..2905, 2813..2905, 2867..2959, 2894..3046, 2894..3046, 2938..3057, 2940..3026, 2940..3059, 2942..3079, 2954..3040, 2954..3049, 3068..3181, 3071..3193, 3076..3183, 3079..3183, 3084..3194, 3087..3215, 3093..3194, 3094..3174, 3097..3180, 3098..3262, 3102..3179, 3119..3208, 3248..3328, 3248..3325, 3249..3341, 3249..3356, 3250..3378, 3253..3378, 3259..3360, 3260..3349		

Seq. No.	58023	Seq. ID	OJ000330_37.0420.C20
Gene No.	121330	Strand	+
Start	83	End	412
Name	OJ000330_37.0420.C20.o1.gs	Method	GENSCAN
Start	83	End	412
GI	none	Score	.64
Exons	83..233, 297..412		

Seq. No.	58023	Seq. ID	OJ000330_37.0420.C20
Gene No.	121331	Strand	-
Start	1	End	1303
Name	OJ000330_37.0420.C20.o1.np	Method	AAT/NAP

Start	1	End	1303
GI	4680186	Score	167
Exons	1..265, 741..822, 1259..1303		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	58023	Seq. ID	OJ000330_37.0420.C20
Gene No.	121331	Strand	-
Start	1	End	1303
Name	OJ000330_37.0420.C20.o2.gs	Method	GENSCAN
Start	663	End	962
GI	none	Score	.56
Exons	663..962		

Seq. No.	58024	Seq. ID	OJ000330_37.0420.C22
Gene No.	121332	Strand	+
Start	201	End	317
Name	OJ000330_37.0420.C22.o1.gs	Method	GENSCAN
Start	201	End	317
GI	none	Score	.9
Exons	201..317		

Seq. No.	58024	Seq. ID	OJ000330_37.0420.C22
Gene No.	121333	Strand	+
Start	532	End	1214
Name	OJ000330_37.0420.C22.o2.gs	Method	GENSCAN
Start	532	End	1214
GI	none	Score	.85
Exons	532..902, 914..1214		

Seq. No.	58024	Seq. ID	OJ000330_37.0420.C22
Gene No.	121334	Strand	+
Start	1151	End	1779
Name	OJ000330_37.0420.C22.o1.np	Method	AAT/NAP
Start	1151	End	1779
GI	6721559	Score	415
Exons	1151..1612, 1641..1779		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815084|dbj|BAA90370.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58024	Seq. ID	OJ000330_37.0420.C22
Gene No.	121335	Strand	+
Start	12187	End	13211
Name	OJ000330_37.0420.C22.o4.gs	Method	GENSCAN
Start	12187	End	13211
GI	none	Score	.48
Exons	12187..12201, 12336..13211		

Seq. No.	58024	Seq. ID	OJ000330_37.0420.C22
Gene No.	121336	Strand	-
Start	14659	End	14834
Name	OJ000330_37.0420.C22.o1.tw	Method	TBLASTX:Wheat
Start	2047	End	2378
GI	none	Score	45
Exons	2047..2097, 2048..2098, 2099..2170, 2100..2168, 2101..2181, 2107..2169, 2170..2247, 2172..2240, 2186..2248, 2274..2315, 2274..2378, 2275..2361		

Seq. No.	58024	Seq. ID	OJ000330_37.0420.C22
Gene No.	121336	Strand	-
Start	14659	End	14834
Name	OJ000330_37.0420.C22.o5.gs	Method	GENSCAN
Start	14659	End	14834
GI	none	Score	.56
Exons	14659..14709, 14761..14834		

Seq. No.	58025	Seq. ID	OJ000330_37.0420.C23
Gene No.	121337	Strand	-
Start	1	End	1550
Name	OJ000330_37.0420.C23.o1.np	Method	AAT/NAP
Start	1	End	1550
GI	6907086	Score	915
Exons	1..382, 568..729, 789..1550		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58026	Seq. ID	OJ000330_37.0420.C25
Gene No.	121338	Strand	-
Start	2674	End	3930
Name	OJ000330_37.0420.C25.o2.gs	Method	GENSCAN
Start	2674	End	3930
GI	none	Score	.56
Exons	2674..2753, 2866..2975, 3318..3420, 3429..3725, 3834..3930		

Seq. No.	58027	Seq. ID	OJ000330_36.0424.C1
Gene No.	121339	Strand	-
Start	1	End	1258
Name	OJ000330_36.0424.C1.o1.np	Method	AAT/NAP
Start	1	End	1251
GI	5902445	Score	976
Exons	1..1251		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	58027	Seq. ID	OJ000330_36.0424.C1
Gene No.	121339	Strand	-
Start	1	End	1258
Name	OJ000330_36.0424.C1.o3.tw	Method	TBLASTX:Wheat
Start	113	End	407
GI	none	Score	86
Exons	113..349, 117..407		

Seq. No.	58027	Seq. ID	OJ000330_36.0424.C1
Gene No.	121339	Strand	-
Start	1	End	1258
Name	OJ000330_36.0424.C1.o1.tw	Method	TBLASTX:Wheat
Start	410	End	817
GI	none	Score	41
Exons	410..475, 410..583, 591..764, 593..778, 593..817		

Seq. No.	58027	Seq. ID	OJ000330_36.0424.C1
Gene No.	121339	Strand	-
Start	1	End	1258
Name	OJ000330_36.0424.C1.o1.tm	Method	TBLASTX:Maize
Start	850	End	1241
GI	none	Score	128

Exons	850..888, 893..967, 986..1240, 1008..1241		
Seq. No.	58027	Seq. ID	OJ000330_36.0424.C1
Gene No.	121339	Strand	-
Start	1	End	1258
Name	OJ000330_36.0424.C1.o2.tw	Method	TBLASTX:Wheat
Start	887	End	1247
GI	none	Score	163
Exons	887..1246, 897..1247		
Seq. No.	58027	Seq. ID	OJ000330_36.0424.C1
Gene No.	121339	Strand	-
Start	1	End	1258
Name	OJ000330_36.0424.C1.o1.ts	Method	TBLASTX:Soybean
Start	908	End	1258
GI	none	Score	211
Exons	908..1258		
Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121340	Strand	+
Start	7894	End	10973
Name	OJ000330_36.0424.C2.o2.gs	Method	GENSCAN
Start	7894	End	10973
GI	none	Score	.82
Exons	7894..7963, 8073..8213, 8406..8744, 8910..9034, 9102..9293, 9364..9422, 9478..9663, 9708..10203, 10500..10973		
Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121340	Strand	+
Start	7894	End	10973
Name	OJ000330_36.0424.C2.o4.np	Method	AAT/NAP
Start	8114	End	9893
GI	6721558	Score	269
Exons	8114..8213, 8910..9044, 9670..9893		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121340	Strand	+
Start	7894	End	10973
Name	OJ000330_36.0424.C2.o5.np	Method	AAT/NAP
Start	9038	End	10245
GI	6721561	Score	1176
Exons	9038..9293, 9364..9422, 9488..10245		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121341	Strand	-
Start	1	End	7703
Name	OJ000330_36.0424.C2.o1.np	Method	AAT/NAP
Start	1	End	493
GI	6983861	Score	854

Exons	1..493		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121341	Strand	-
Start	1	End	7703
Name	OJ000330_36.0424.C2.o2.np	Method	AAT/NAP
Start	1	End	7319
GI	7228457	Score	1586
Exons	1..39, 3344..4161, 4219..5823, 7272..7319		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121341	Strand	-
Start	1	End	7703
Name	OJ000330_36.0424.C2.o1.gs	Method	GENSCAN
Start	28	End	7280
GI	none	Score	.44
Exons	28..493, 1746..1846, 2212..2362, 2368..2680, 2980..3023, 3362..3742, 3847..4011, 4099..5483, 5531..5684, 5694..7280		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121341	Strand	-
Start	1	End	7703
Name	OJ000330_36.0424.C2.o3.np	Method	AAT/NAP
Start	5622	End	7703
GI	7523517	Score	268
Exons	5622..5640, 7210..7264, 7409..7703		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o1.tw	Method	TBLASTX:Wheat
Start	3347	End	3703
GI	none	Score	131
Exons	3347..3691, 3347..3703		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o4.tm	Method	TBLASTX:Maize
Start	3347	End	3568
GI	none	Score	198
Exons	3347..3568		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o2.tm	Method	TBLASTX:Maize
Start	3572	End	3927
GI	none	Score	110
Exons	3572..3772, 3573..3764, 3733..3927, 3746..3865, 3769..3873		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o6.tw	Method	TBLASTX:Wheat
Start	3704	End	3936
GI	none	Score	64
Exons	3704..3772, 3705..3761, 3742..3936, 3743..3934, 3766..3936		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o2.tw	Method	TBLASTX:Wheat
Start	3937	End	10054
GI	none	Score	134
Exons	3937..4191, 3941..4102, 4249..4485, 4259..4483, 4522..4704, 4523..4696, 9933..9956, 9968..10054		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o5.tw	Method	TBLASTX:Wheat
Start	5287	End	5684
GI	none	Score	124
Exons	5287..5511, 5508..5684		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o3.gs	Method	GENSCAN
Start	11604	End	12438
GI	none	Score	.84
Exons	11604..12169, 12274..12438		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o6.np	Method	AAT/NAP
Start	11607	End	12699
GI	7228457	Score	1114
Exons	11607..12699		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o3.tw	Method	TBLASTX:Wheat
Start	11616	End	12223
GI	none	Score	67
Exons	11616..11747, 11617..11742, 11772..12182, 11968..12075, 12146..12223		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o3.tm	Method	TBLASTX:Maize

Start	11652	End	11918
GI	none	Score	51
Exons	11652..11735, 11686..11745, 11730..11849, 11736..11918		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o4.tw	Method	TBLASTX:Wheat
Start	12245	End	12599
GI	none	Score	186
Exons	12245..12598, 12255..12599		

Seq. No.	58028	Seq. ID	OJ000330_36.0424.C2
Gene No.	121342	Strand	-
Start	11604	End	12699
Name	OJ000330_36.0424.C2.o1.tm	Method	TBLASTX:Maize
Start	12425	End	12694
GI	none	Score	152
Exons	12425..12694, 12426..12692		

Seq. No.	58029	Seq. ID	OJ000330_36.0424.C3
Gene No.	121343	Strand	
Start	156	End	612
Name	OJ000330_36.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	156	End	426
GI	none	Score	151
Exons	156..347, 187..426, 188..424, 190..426		

Seq. No.	58029	Seq. ID	OJ000330_36.0424.C3
Gene No.	121343	Strand	
Start	156	End	612
Name	OJ000330_36.0424.C3.o1.tw	Method	TBLASTX:Wheat
Start	292	End	612
GI	none	Score	200
Exons	292..612, 314..604		

Seq. No.	58029	Seq. ID	OJ000330_36.0424.C3
Gene No.	121344	Strand	
Start	574	End	2243
Name	OJ000330_36.0424.C3.o2.tm	Method	TBLASTX:Maize
Start	574	End	2243
GI	none	Score	118
Exons	574..606, 2034..2237, 2037..2243, 2038..2238		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4
Gene No.	121345	Strand	+
Start	1641	End	2852
Name	OJ000330_36.0424.C4.o1.gp	Method	AAT/GAP
Start	1641	End	2852
GI	15630_1.R1084	Score	2317
Exons	1641..2852		
GI Descrip.	'4432860/gb|AAD20708| 9.0e-28 (AC006300) putative glucose-induced repressor protein [Arabidopsis thaliana]'		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4
Gene No.	121346	Strand	-
Start	2431	End	5396

Name	OJ000330_36.0424.C4.o1.tm	Method	TBLASTX:Maize
Start	1655	End	4203
GI	none	Score	108
Exons	1655..1759, 1657..1776, 1684..1770, 2133..2162, 2134..2163, 2172..2261, 2172..2261, 2173..2262, 2187..2270, 2227..2322, 2349..2393, 2355..2393, 2356..2397, 2362..2406, 2415..2474, 2424..2492, 2431..2499, 2435..2500, 2449..3018, 2467..2649, 2492..3019, 2492..2872, 2500..3018, 2653..2784, 2653..2760, 2866..3000, 2869..3078, 2899..3321, 2993..3547, 3022..3546, 3088..3372, 3136..3333, 3196..3318, 3496..3756, 3505..3729, 3511..3723, 3529..3633, 3539..3757, 3547..3951, 3551..3901, 3577..3696, 3577..3819, 3583..3720, 3604..3834, 3607..3714, 3640..3837, 3646..3798, 3652..3816, 3739..3837, 3796..3858, 3806..3904, 4153..4203		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4
Gene No.	121346	Strand	-
Start	2431	End	5396
Name	OJ000330_36.0424.C4.o2.gs	Method	GENSCAN
Start	2431	End	4383
GI	none	Score	.57
Exons	2431..4383		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4
Gene No.	121346	Strand	-
Start	2431	End	5396
Name	OJ000330_36.0424.C4.o1.np	Method	AAT/NAP
Start	2434	End	5396
GI	4432860	Score	1301
Exons	2434..3966, 4024..4215, 5378..5396		
GI Descrip.	(AC006300) putative glucose regulated repressor protein [Arabidopsis thaliana]		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4
Gene No.	121346	Strand	-
Start	2431	End	5396
Name	OJ000330_36.0424.C4.o1.ts	Method	TBLASTX:Soybean
Start	2503	End	4200
GI	none	Score	333
Exons	2503..3159, 2516..3139, 2653..2805, 2662..2757, 2842..3003, 2869..3006, 2872..2961, 2944..3006, 3088..3327, 3103..3339, 3142..3564, 3163..3306, 3220..3468, 3242..3550, 3496..3756, 3505..3645, 3505..3603, 3538..3723, 3565..3951, 3566..3946, 3574..3714, 3604..3801, 3607..3714, 3679..3780, 3682..3840, 3742..3849, 3799..3834, 4066..4200		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4
Gene No.	121346	Strand	-
Start	2431	End	5396
Name	OJ000330_36.0424.C4.o1.tc	Method	TBLASTX:Cress
Start	2560	End	3840
GI	none	Score	436
Exons	2560..2757, 2653..2760, 2653..2760, 2659..2766, 2770..2838, 2842..3003, 2848..3834, 2849..3835, 3472..3642, 3481..3759, 3640..3840		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4

Gene No.	121346	Strand	-
Start	2431	End	5396
Name	OJ000330_36.0424.C4.o1.tw	Method	TBLASTX:Wheat
Start	2872	End	3535
GI	none	Score	298
Exons	2872..2961, 3308..3535, 3308..3523, 3312..3524, 3313..3531		

Seq. No.	58030	Seq. ID	OJ000330_36.0424.C4
Gene No.	121346	Strand	-
Start	2431	End	5396
Name	OJ000330_36.0424.C4.o2.gp	Method	AAT/GAP
Start	4267	End	4531
GI	LIB3475-007-P1-K1-H1	Score	296
Exons	4267..4400, 4482..4531		
GI Descrip.	'2632254/emb|CAA73068| 1.0e-17 (Y12465) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	58031	Seq. ID	OJ000330_36.0424.C5
Gene No.	121347	Strand	-
Start	1292	End	1402
Name	OJ000330_36.0424.C5.o2.gs	Method	GENSCAN
Start	1292	End	1402
GI	none	Score	.92
Exons	1292..1402		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121348	Strand	+
Start	318	End	620
Name	OJ000330_36.0424.C6.o1.gs	Method	GENSCAN
Start	318	End	620
GI	none	Score	.94
Exons	318..620		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o2.gs	Method	GENSCAN
Start	813	End	7660
GI	none	Score	.82
Exons	813..977, 2118..2229, 2330..2466, 3097..3164, 3321..3804, 5269..5286, 6536..7274, 7341..7660		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o1.np	Method	AAT/NAP
Start	3373	End	7796
GI	4877649	Score	415
Exons	3373..3487, 3545..3804, 6536..6763, 7764..7796		
GI Descrip.	(AF114162) gibberellin MYB transcription factor [Lolium temulentum]		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o1.tw	Method	TBLASTX:Wheat
Start	3547	End	6589

GI	none	Score	291
Exons	3547..3798, 3552..3797, 6538..6579, 6539..6589		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o1.tc	Method	TBLASTX:Cress
Start	3552	End	6601
GI	none	Score	335
Exons	3552..3797, 3553..3801, 6539..6601		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o1.ts	Method	TBLASTX:Soybean
Start	3552	End	3798
GI	none	Score	318
Exons	3552..3575, 3553..3798, 3612..3722		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o1.tm	Method	TBLASTX:Maize
Start	3553	End	6592
GI	none	Score	300
Exons	3553..3798, 3558..3797, 6532..6579, 6539..6592		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o2.np	Method	AAT/NAP
Start	4999	End	7796
GI	7438355	Score	93
Exons	4999..5037, 6536..6763, 7764..7796		
GI Descrip.	myb-related protein - barley gi|1200239|emb|CAA61021.1| (X87690) GAMyb protein [Hordeum vulgare]		

Seq. No.	58032	Seq. ID	OJ000330_36.0424.C6
Gene No.	121349	Strand	+
Start	813	End	7796
Name	OJ000330_36.0424.C6.o1.gp	Method	AAT/GAP
Start	7634	End	7796
GI	2796906	Score	295
Exons	7634..7796		

Seq. No.	58033	Seq. ID	OJ000330_36.0424.C7
Gene No.	121350	Strand	+
Start	1	End	703
Name	OJ000330_36.0424.C7.o1.np	Method	AAT/NAP
Start	1	End	703
GI	7446447	Score	246
Exons	1..115, 236..307, 566..703		
GI Descrip.	serine/threonine-specific protein kinase homolog T22A6.230 - Arabidopsis thaliana gi|5051782|emb|CAB45075.1| (AL078637) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7269290|emb|CAB79350.1| (AL161561) serine/threonine kinase-like protein [Arabidopsis thaliana]		

Seq. No.	58033	Seq. ID	OJ000330_36.0424.C7
Gene No.	121350	Strand	+
Start	1	End	703
Name	OJ000330_36.0424.C7.o1.tm	Method	TBLASTX:Maize
Start	32	End	684
GI	none	Score	108
Exons	32..118, 50..118, 52..120, 214..309, 235..309, 236..313, 568..672, 569..673, 571..684		

Seq. No.	58033	Seq. ID	OJ000330_36.0424.C7
Gene No.	121350	Strand	+
Start	1	End	703
Name	OJ000330_36.0424.C7.o1.tc	Method	TBLASTX:Cress
Start	50	End	625
GI	none	Score	92
Exons	50..118, 52..132, 235..330, 236..316, 568..624, 569..625		

Seq. No.	58033	Seq. ID	OJ000330_36.0424.C7
Gene No.	121350	Strand	+
Start	1	End	703
Name	OJ000330_36.0424.C7.o1.ts	Method	TBLASTX:Soybean
Start	235	End	673
GI	none	Score	106
Exons	235..306, 236..310, 571..672, 575..673		

Seq. No.	58033	Seq. ID	OJ000330_36.0424.C7
Gene No.	121350	Strand	+
Start	1	End	703
Name	OJ000330_36.0424.C7.o1.gs	Method	GENSCAN
Start	236	End	673
GI	none	Score	.77
Exons	236..307, 566..673		

Seq. No.	58034	Seq. ID	OJ000330_36.0424.C9
Gene No.	121351	Strand	+
Start	1	End	739
Name	OJ000330_36.0424.C9.o1.np	Method	AAT/NAP
Start	1	End	739
GI	6983860	Score	1208
Exons	1..739		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	58034	Seq. ID	OJ000330_36.0424.C9
Gene No.	121351	Strand	+
Start	1	End	739
Name	OJ000330_36.0424.C9.o2.tw	Method	TBLASTX:Wheat
Start	109	End	307
GI	none	Score	205
Exons	109..306, 110..307, 113..307		

Seq. No.	58034	Seq. ID	OJ000330_36.0424.C9
Gene No.	121351	Strand	+
Start	1	End	739
Name	OJ000330_36.0424.C9.o1.tw	Method	TBLASTX:Wheat
Start	356	End	709

GI	none	Score	315
Exons	356..553, 359..709		
Seq. No.	58034	Seq. ID	OJ000330_36.0424.C9
Gene No.	121351	Strand	+
Start	1	End	739
Name	OJ000330_36.0424.C9.o1.tm	Method	TBLASTX:Maize
Start	359	End	664
GI	none	Score	247
Exons	359..664, 359..595		
Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121352	Strand	+
Start	1	End	4322
Name	OJ000330_36.0424.C10.o1.np	Method	AAT/NAP
Start	1	End	855
GI	7340723	Score	162
Exons	1..28, 197..495, 754..855		
GI Descrip.	(AL162507) putative protein [Arabidopsis thaliana]		
Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121352	Strand	+
Start	1	End	4322
Name	OJ000330_36.0424.C10.o2.np	Method	AAT/NAP
Start	1	End	3282
GI	5852180	Score	541
Exons	1..35, 1664..1717, 2698..2814, 2867..3282		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121352	Strand	+
Start	1	End	4322
Name	OJ000330_36.0424.C10.o1.gs	Method	GENSCAN
Start	82	End	2019
GI	none	Score	.73
Exons	82..151, 1664..1717, 1814..2019		
Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121352	Strand	+
Start	1	End	4322
Name	OJ000330_36.0424.C10.o2.gs	Method	GENSCAN
Start	2933	End	4322
GI	none	Score	.6
Exons	2933..3326, 4213..4322		
Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121353	Strand	+
Start	6621	End	8470
Name	OJ000330_36.0424.C10.o3.gs	Method	GENSCAN
Start	6621	End	8470
GI	none	Score	.91
Exons	6621..6785, 7772..8470		
Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121354	Strand	-
Start	1566	End	1949
Name	OJ000330_36.0424.C10.o1.ts	Method	TBLASTX:Soybean

Start	255	End	468
GI	none	Score	200
Exons	255..467, 265..468		

Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121354	Strand	-
Start	1566	End	1949
Name	OJ000330_36.0424.C10.o1.tm	Method	TBLASTX:Maize
Start	282	End	641
GI	none	Score	141
Exons	282..482, 283..483, 285..482, 311..487, 603..641		

Seq. No.	58035	Seq. ID	OJ000330_36.0424.C10
Gene No.	121354	Strand	-
Start	1566	End	1949
Name	OJ000330_36.0424.C10.o1.gp	Method	AAT/GAP
Start	1566	End	1949
GI	uC-osflcyp033a04b1	Score	655
Exons	1566..1949		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	58036	Seq. ID	OJ000330_36.0424.C11
Gene No.	121355	Strand	+
Start	888	End	1187
Name	OJ000330_36.0424.C11.o1.gs	Method	GENSCAN
Start	888	End	1187
GI	none	Score	.65
Exons	888..1187		

Seq. No.	58037	Seq. ID	OJ000330_36.0424.C12
Gene No.	121356	Strand	-
Start	172	End	2014
Name	OJ000330_36.0424.C12.o1.tm	Method	TBLASTX:Maize
Start	13	End	588
GI	none	Score	233
Exons	13..93, 166..402, 173..583, 175..588		

Seq. No.	58037	Seq. ID	OJ000330_36.0424.C12
Gene No.	121356	Strand	-
Start	172	End	2014
Name	OJ000330_36.0424.C12.o1.gs	Method	GENSCAN
Start	172	End	2014
GI	none	Score	.5
Exons	172..730, 1059..1252, 1309..1504, 1594..1614, 1620..2014		

Seq. No.	58038	Seq. ID	OJ000330_36.0424.C13
Gene No.	121357	Strand	-
Start	1355	End	5959
Name	OJ000330_36.0424.C13.o1.gs	Method	GENSCAN
Start	1355	End	5959
GI	none	Score	.72
Exons	1355..1579, 1813..2196, 3562..3780, 4080..4254, 5859..5959		

Seq. No.	58038	Seq. ID	OJ000330_36.0424.C13
Gene No.	121358	Strand	-
Start	7242	End	7670

Name	OJ000330_36.0424.C13.o2.gs	Method	GENSCAN
Start	7242	End	7670
GI	none	Score	.94
Exons	7242..7404, 7540..7670		

Seq. No.	58038	Seq. ID	OJ000330_36.0424.C13
Gene No.	121359	Strand	-
Start	10833	End	11383
Name	OJ000330_36.0424.C13.o4.gs	Method	GENSCAN
Start	10833	End	11383
GI	none	Score	.77
Exons	10833..10860, 11277..11383		

Seq. No.	58039	Seq. ID	OJ000330_36.0424.C14
Gene No.	121360	Strand	+
Start	373	End	1063
Name	OJ000330_36.0424.C14.o1.gs	Method	GENSCAN
Start	373	End	1063
GI	none	Score	.42
Exons	373..471, 1049..1063		

Seq. No.	58039	Seq. ID	OJ000330_36.0424.C14
Gene No.	121361	Strand	+
Start	2693	End	2997
Name	OJ000330_36.0424.C14.o1.gp	Method	AAT/GAP
Start	2693	End	2997
GI	3761745	Score	518
Exons	2693..2997		
GI Descrip.	4099436/gb|U87250|MVU87250 3.0e-67 Mustela vison GT dinucleotide repeat, chromosome 2,3,5 and 7 centromeric		

Seq. No.	58039	Seq. ID	OJ000330_36.0424.C14
Gene No.	121362	Strand	-
Start	2923	End	3447
Name	OJ000330_36.0424.C14.o2.gs	Method	GENSCAN
Start	2923	End	3447
GI	none	Score	.96
Exons	2923..3197, 3279..3447		

Seq. No.	58039	Seq. ID	OJ000330_36.0424.C14
Gene No.	121363	Strand	-
Start	4034	End	6125
Name	OJ000330_36.0424.C14.o3.gs	Method	GENSCAN
Start	4034	End	6125
GI	none	Score	.43
Exons	4034..4151, 4341..4390, 5351..5412, 6041..6125		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o1.np	Method	AAT/NAP
Start	1	End	1966
GI	4680179	Score	2900
Exons	1..1966		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21

Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o2.ts	Method	TBLASTX:Soybean
Start	15	End	242
GI	none	Score	182
Exons	15..242		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o3.tw	Method	TBLASTX:Wheat
Start	34	End	413
GI	none	Score	142
Exons	34..387, 39..413, 41..406, 63..413		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o2.tm	Method	TBLASTX:Maize
Start	60	End	413
GI	none	Score	460
Exons	60..413, 65..406		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o1.gs	Method	GENSCAN
Start	114	End	1932
GI	none	Score	.59
Exons	114..653, 761..1932		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o2.tw	Method	TBLASTX:Wheat
Start	444	End	980
GI	none	Score	131
Exons	444..611, 587..979, 607..975, 617..979, 699..980		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o1.tc	Method	TBLASTX:Cress
Start	677	End	1003
GI	none	Score	89
Exons	677..859, 860..1003, 862..1002		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o1.ts	Method	TBLASTX:Soybean
Start	767	End	1027
GI	none	Score	302
Exons	767..1027, 778..1026		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+

Start	1	End	1966
Name	OJ000330_36.0424.C21.o3.tm	Method	TBLASTX:Maize
Start	825	End	1117
GI	none	Score	85
Exons	825..926, 826..1113, 827..1117		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o1.tw	Method	TBLASTX:Wheat
Start	986	End	1612
GI	none	Score	712
Exons	986..1612, 1042..1494, 1552..1611		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o1.tm	Method	TBLASTX:Maize
Start	1165	End	1750
GI	none	Score	225
Exons	1165..1320, 1166..1327, 1180..1329, 1324..1497, 1325..1750, 1484..1729, 1552..1749		

Seq. No.	58040	Seq. ID	OJ000330_36.0424.C21
Gene No.	121364	Strand	+
Start	1	End	1966
Name	OJ000330_36.0424.C21.o4.tw	Method	TBLASTX:Wheat
Start	1612	End	1945
GI	none	Score	315
Exons	1612..1893, 1613..1945		

Seq. No.	58041	Seq. ID	OJ000330_36.0424.C22
Gene No.	121365	Strand	+
Start	1	End	787
Name	OJ000330_36.0424.C22.o1.np	Method	AAT/NAP
Start	1	End	787
GI	6063554	Score	119
Exons	1..28, 613..787		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58042	Seq. ID	OJ000310_31.0425.C1
Gene No.	121366	Strand	-
Start	202	End	404
Name	OJ000310_31.0425.C1.o1.gs	Method	GENSCAN
Start	202	End	404
GI	none	Score	.84
Exons	202..404		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121367	Strand	+
Start	1538	End	5178
Name	OJ000310_31.0425.C2.o1.gs	Method	GENSCAN
Start	1538	End	5178
GI	none	Score	.74
Exons	1538..1853, 2444..2596, 3374..3506, 3687..3897, 3975..4212,		

4464..4614, 4813..5178

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121367	Strand	+
Start	1538	End	5178
Name	OJ000310_31.0425.C2.o1.gp	Method	AAT/GAP
Start	1854	End	2361
GI	none	Score	579
Exons	1854..2171, 2333..2361		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121367	Strand	+
Start	1538	End	5178
Name	OJ000310_31.0425.C2.o1.np	Method	AAT/NAP
Start	3355	End	5175
GI	6403501	Score	948
Exons	3355..3506, 3687..3897, 3975..4212, 4464..4617, 4813..5175		
GI Descrip.	(AC010871) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121368	Strand	+
Start	13314	End	13609
Name	OJ000310_31.0425.C2.o3.gs	Method	GENSCAN
Start	13314	End	13609
GI	none	Score	.72
Exons	13314..13497, 13503..13609		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121369	Strand	+
Start	15492	End	15581
Name	OJ000310_31.0425.C2.o3.gp	Method	AAT/GAP
Start	15492	End	15581
GI	69953_1.R1084	Score	127
Exons	15492..15581		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121370	Strand	-
Start	6453	End	10822
Name	OJ000310_31.0425.C2.o2.gp	Method	AAT/GAP
Start	6453	End	10822
GI	90_1.R1084	Score	4008
Exons	6453..7099, 7500..7586, 8169..8249, 8355..8507, 8588..8644, 8752..8998, 9093..9208, 9831..9982, 10086..10275, 10394..10822		
GI Descrip.	'5360659/dbj|BAA82095.1| 0.0e+00 (AB022603) anthranilate synthase alpha 2 subunit [Oryza sativa]'		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121370	Strand	-
Start	6453	End	10822
Name	OJ000310_31.0425.C2.o2.gs	Method	GENSCAN
Start	6773	End	10804
GI	none	Score	.95
Exons	6773..7099, 7500..7586, 8169..8249, 8355..8507, 8588..8644, 8752..8998, 9093..9208, 9831..9982, 10086..10275, 10394..10804		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121370	Strand	-
Start	6453	End	10822
Name	OJ000310_31.0425.C2.o2.np	Method	AAT/NAP
Start	6776	End	10804
GI	5360659	Score	2857
Exons	6776..7099, 7500..7586, 8169..8249, 8355..8507, 8588..8644, 8752..8998, 9093..9208, 9831..9982, 10086..10275, 10394..10804		
GI Descrip.	(AB022603) anthranilate synthase alpha 2 subunit [Oryza sativa]		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121371	Strand	-
Start	16691	End	18055
Name	OJ000310_31.0425.C2.o4.gs	Method	GENSCAN
Start	16691	End	18055
GI	none	Score	.91
Exons	16691..18055		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121371	Strand	-
Start	16691	End	18055
Name	OJ000310_31.0425.C2.o3.np	Method	AAT/NAP
Start	16694	End	17800
GI	3582332	Score	554
Exons	16694..17800		
GI Descrip.	(AC005496) unknown protein [Arabidopsis thaliana]		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121372	Strand	-
Start	21877	End	23355
Name	OJ000310_31.0425.C2.o4.gp	Method	AAT/GAP
Start	21877	End	22107
GI	2796538	Score	372
Exons	21877..22107		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121372	Strand	-
Start	21877	End	23355
Name	OJ000310_31.0425.C2.o4.np	Method	AAT/NAP
Start	21934	End	23355
GI	5923668	Score	876
Exons	21934..22095, 22156..23355		
GI Descrip.	(AC009326) hypothetical protein [Arabidopsis thaliana] gi|6403485|gb|AAF07825.1|AC010871_1 (AC010871) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o1.ts	Method	TBLASTX:Soybean
Start	3402	End	4614
GI	none	Score	93
Exons	3402..3506, 3686..3937, 3687..3902, 3974..4213, 3991..4212, 4461..4571, 4465..4614		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-

Start	23928	End	27083
Name	OJ000310_31.0425.C2.o1.tc	Method	TBLASTX:Cress
Start	3420	End	4974
GI	none	Score	86
Exons	3420..3506, 3686..3937, 3687..3917, 3976..4212, 3977..4213, 4461..4619, 4465..4614, 4900..4974		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o1.tw	Method	TBLASTX:Wheat
Start	3686	End	4129
GI	none	Score	210
Exons	3686..3943, 3687..3899, 3985..4122, 3992..4129, 4001..4123		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o3.tm	Method	TBLASTX:Maize
Start	3747	End	5417
GI	none	Score	244
Exons	3747..3902, 3755..3898, 3759..3902, 3978..4211, 3978..4211, 3980..4213, 3985..4212, 4396..4614, 4424..4534, 4463..4618, 4464..4613, 4465..4614, 4565..4615, 4811..5032, 4812..5048, 4813..5178, 4813..5055, 5054..5128, 5133..5177, 5287..5313, 5325..5399, 5391..5417		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o1.tm	Method	TBLASTX:Maize
Start	6661	End	10556
GI	none	Score	63
Exons	6661..6744, 6669..6746, 6770..7102, 6773..7096, 6912..7103, 7476..7586, 7485..7586, 7498..7587, 7498..7587, 8164..8250, 8164..8250, 8166..8252, 8168..8278, 8352..8528, 8354..8509, 8588..8644, 8592..8645, 8602..8646, 8748..8996, 8751..8996, 8752..8997, 8752..9012, 8753..8998, 9092..9235, 9093..9215, 9101..9238, 9831..9983, 9832..9984, 9833..9982, 9886..9984, 10083..10202, 10084..10284, 10085..10276, 10388..10555, 10394..10555, 10395..10556		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o2.ts	Method	TBLASTX:Soybean
Start	6779	End	7090
GI	none	Score	169
Exons	6779..7090, 6797..7090		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o3.tc	Method	TBLASTX:Cress
Start	6779	End	7103
GI	none	Score	100
Exons	6779..6991, 6797..6970, 6959..7096, 6972..7103, 7033..7101		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o3.ts	Method	TBLASTX:Soybean
Start	7513	End	8504
GI	none	Score	89
Exons	7513..7587, 7515..7586, 8164..8250, 8166..8252, 8177..8260, 8338..8406, 8351..8485, 8352..8504		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o2.tc	Method	TBLASTX:Cress
Start	8460	End	8998
GI	none	Score	61
Exons	8460..8528, 8588..8644, 8595..8645, 8605..8646, 8750..8962, 8751..8993, 8752..8997, 8753..8998		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o4.ts	Method	TBLASTX:Soybean
Start	8603	End	8926
GI	none	Score	48
Exons	8603..8644, 8604..8645, 8751..8894, 8752..8922, 8753..8926		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o5.ts	Method	TBLASTX:Soybean
Start	10090	End	10552
GI	none	Score	135
Exons	10090..10284, 10097..10276, 10415..10552, 10416..10547		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o6.tm	Method	TBLASTX:Maize
Start	16694	End	17299
GI	none	Score	85
Exons	16694..16780, 16697..16798, 17009..17113, 17013..17108, 17078..17134, 17180..17272, 17193..17273, 17282..17299		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o2.tm	Method	TBLASTX:Maize
Start	22195	End	22659
GI	none	Score	303
Exons	22195..22659, 22197..22505, 22280..22657, 22396..22659		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o4.tm	Method	TBLASTX:Maize
Start	22748	End	22990

GI	none	Score	139
Exons	22748..22885, 22765..22983, 22765..22989, 22934..22990		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o6.gs	Method	GENSCAN
Start	23928	End	26985
GI	none	Score	.56
Exons	23928..23981, 24833..24916, 26867..26985		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o5.np	Method	AAT/NAP
Start	24422	End	27083
GI	2494129	Score	460
Exons	24422..24572, 24675..24933, 25699..25924, 26295..26457, 26643..26758, 26867..26948, 27025..27083		
GI Descrip.	(AC002376) T1G11.3 [Arabidopsis thaliana]		

Seq. No.	58043	Seq. ID	OJ000310_31.0425.C2
Gene No.	121373	Strand	-
Start	23928	End	27083
Name	OJ000310_31.0425.C2.o5.tm	Method	TBLASTX:Maize
Start	24509	End	25936
GI	none	Score	63
Exons	24509..24574, 24510..24575, 24675..24764, 24677..24799, 24678..24788, 24809..24931, 24819..24917, 24829..24918, 24836..24934, 25594..25656, 25595..25657, 25595..25657, 25597..25659, 25732..25920, 25733..25924, 25737..25925, 25814..25936		

Seq. No.	58044	Seq. ID	OJ000310_31.0425.C3
Gene No.	121374	Strand	-
Start	109	End	2251
Name	OJ000310_31.0425.C3.o1.gs	Method	GENSCAN
Start	109	End	2144
GI	none	Score	.77
Exons	109..284, 397..422, 670..777, 964..1014, 1088..1189, 1805..2007, 2069..2144		

Seq. No.	58044	Seq. ID	OJ000310_31.0425.C3
Gene No.	121374	Strand	-
Start	109	End	2251
Name	OJ000310_31.0425.C3.o1.np	Method	AAT/NAP
Start	530	End	2251
GI	2494124	Score	525
Exons	530..592, 670..755, 936..1014, 1088..1265, 1599..1693, 1805..2068, 2222..2251		
GI Descrip.	(AC002376) Similar to Saccharomyces CHL12 (gb|Z49259). [Arabidopsis thaliana]		

Seq. No.	58044	Seq. ID	OJ000310_31.0425.C3
Gene No.	121374	Strand	-
Start	109	End	2251
Name	OJ000310_31.0425.C3.o1.tm	Method	TBLASTX:Maize

Start	1650	End	2071
GI	none	Score	73
Exons	1650..1694, 1652..1717, 1802..2071, 1804..2070		

Seq. No.	58045	Seq. ID	OJ000310_31.0425.C4
Gene No.	121375	Strand	+
Start	1641	End	2494
Name	OJ000310_31.0425.C4.o2.gs	Method	GENSCAN
Start	1641	End	2494
GI	none	Score	.95
Exons	1641..1796, 1823..2100, 2105..2220, 2325..2494		

Seq. No.	58045	Seq. ID	OJ000310_31.0425.C4
Gene No.	121376	Strand	-
Start	176	End	977
Name	OJ000310_31.0425.C4.o1.gs	Method	GENSCAN
Start	176	End	977
GI	none	Score	.49
Exons	176..237, 461..688, 782..977		

Seq. No.	58045	Seq. ID	OJ000310_31.0425.C4
Gene No.	121377	Strand	-
Start	1604	End	2093
Name	OJ000310_31.0425.C4.o1.np	Method	AAT/NAP
Start	1604	End	2093
GI	4587577	Score	159
Exons	1604..2093		
GI Descrip.	(AC006550) F10O3.17 [Arabidopsis thaliana]		

Seq. No.	58045	Seq. ID	OJ000310_31.0425.C4
Gene No.	121378	Strand	-
Start	2566	End	4122
Name	OJ000310_31.0425.C4.o3.gs	Method	GENSCAN
Start	2566	End	4122
GI	none	Score	.43
Exons	2566..2633, 3170..3353, 3494..3550, 4117..4122		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121379	Strand	+
Start	340	End	8525
Name	OJ000310_31.0425.C5.o1.gs	Method	GENSCAN
Start	340	End	3052
GI	none	Score	.64
Exons	340..377, 561..723, 853..983, 1699..3052		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121379	Strand	+
Start	340	End	8525
Name	OJ000310_31.0425.C5.o1.np	Method	AAT/NAP
Start	1375	End	3349
GI	6630458	Score	568
Exons	1375..1627, 1664..2515, 2627..2842, 2893..3349		
GI Descrip.	(AC007190) F23N19.13 [Arabidopsis thaliana]		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121379	Strand	+
Start	340	End	8525

Name	OJ000310_31.0425.C5.o2.gs	Method	GENSCAN
Start	3200	End	3626
GI	none	Score	.78
Exons	3200..3278, 3487..3626		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121379	Strand	+
Start	340	End	8525
Name	OJ000310_31.0425.C5.o2.np	Method	AAT/NAP
Start	3396	End	8525
GI	6759445	Score	1027
Exons	3396..3438, 5198..5320, 5458..5524, 5618..5688, 6057..6174, 6248..6321, 6889..6959, 7039..7115, 7254..7291, 7763..7819, 8034..8525		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121379	Strand	+
Start	340	End	8525
Name	OJ000310_31.0425.C5.o3.gs	Method	GENSCAN
Start	4294	End	8472
GI	none	Score	.77
Exons	4294..4655, 5018..5320, 5458..5688, 6057..6174, 6248..6321, 6706..6761, 6876..6959, 7039..7126, 7214..7291, 8034..8472		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121379	Strand	+
Start	340	End	8525
Name	OJ000310_31.0425.C5.o1.gp	Method	AAT/GAP
Start	5201	End	6744
GI	21886_1.R1084	Score	802
Exons	5201..5320, 5458..5524, 5618..5688, 6057..6174, 6248..6320, 6706..6744		
GI Descrip.	'1001478/dbj|BAA10104| 6.0e-15 (D63999) hypothetical protein [Synechocystis sp.]'		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121379	Strand	+
Start	340	End	8525
Name	OJ000310_31.0425.C5.o2.gp	Method	AAT/GAP
Start	7779	End	8426
GI	LIB3432-006-P1-K1-F3	Score	811
Exons	7779..7819, 8034..8426		
GI Descrip.	'1001478/dbj|BAA10104| 4.0e-24 (D63999) hypothetical protein [Synechocystis sp.]'		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o2.tm	Method	TBLASTX:Maize
Start	1751	End	2350
GI	none	Score	455
Exons	1751..2350, 1768..2097		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036

Name	OJ000310_31.0425.C5.o3.tc	Method	TBLASTX:Cress
Start	1796	End	2101
GI	none	Score	186
Exons	1796..2101		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o2.tw	Method	TBLASTX:Wheat
Start	2162	End	2416
GI	none	Score	183
Exons	2162..2416		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o3.ts	Method	TBLASTX:Soybean
Start	2977	End	3235
GI	none	Score	184
Exons	2977..3234, 3053..3235		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o5.tm	Method	TBLASTX:Maize
Start	3052	End	3250
GI	none	Score	233
Exons	3052..3249, 3053..3250		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o1.ts	Method	TBLASTX:Soybean
Start	5256	End	8459
GI	none	Score	74
Exons	5256..5321, 5419..5550, 5456..5551, 5606..5683, 5623..5688, 6048..6176, 6055..6177, 6247..6324, 6248..6319, 6706..6750, 6707..6760, 6877..6951, 6881..6958, 7028..7126, 7029..7124, 7054..7155, 7208..7291, 7209..7289, 7764..7820, 8031..8456, 8032..8454, 8271..8459		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o4.tm	Method	TBLASTX:Maize
Start	5479	End	7094
GI	none	Score	85
Exons	5479..5547, 5480..5527, 5487..5549, 5615..5686, 5618..5686, 5620..5691, 5620..5688, 6051..6176, 6054..6179, 6055..6180, 6059..6184, 6247..6324, 6248..6322, 6706..6762, 6707..6760, 6711..6773, 6839..6976, 6877..6954, 7028..7084, 7029..7094, 7038..7094		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o2.tc	Method	TBLASTX:Cress

Start	7032	End	8151
GI	none	Score	126
Exons	7032..7124, 7046..7126, 7208..7291, 7209..7289, 7757..7819, 7764..7820, 8031..8144, 8032..8151		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o1.tm	Method	TBLASTX:Maize
Start	7095	End	8454
GI	none	Score	43
Exons	7095..7124, 7208..7291, 7209..7289, 7212..7322, 7213..7290, 7757..7819, 7764..7820, 7767..7820, 8031..8111, 8032..8112, 8112..8393, 8113..8397, 8395..8454		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o3.np	Method	AAT/NAP
Start	7690	End	11448
GI	3582334	Score	504
Exons	7690..7709, 10170..10590, 11365..11448		
GI Descrip.	(AC005496) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o1.tc	Method	TBLASTX:Cress
Start	8214	End	8455
GI	none	Score	276
Exons	8214..8453, 8215..8454, 8339..8455		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o3.gp	Method	AAT/GAP
Start	8431	End	8824
GI	none	Score	780
Exons	8431..8824		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o4.gs	Method	GENSCAN
Start	10135	End	15036
GI	none	Score	.64
Exons	10135..10590, 11365..11743, 12626..12736, 14963..15036		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o2.ts	Method	TBLASTX:Soybean
Start	10303	End	10615
GI	none	Score	178
Exons	10303..10401, 10352..10615, 10360..10614		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5

Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o3.tm	Method	TBLASTX:Maize
Start	10381	End	11538
GI	none	Score	195
Exons	10381..10551, 10382..10552, 10544..10591, 10552..10671, 11363..11428, 11363..11428, 11364..11429, 11365..11430, 11460..11525, 11463..11528, 11464..11529, 11479..11538		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o6.tm	Method	TBLASTX:Maize
Start	14170	End	14502
GI	none	Score	68
Exons	14170..14289, 14302..14343, 14341..14502, 14399..14491		

Seq. No.	58046	Seq. ID	OJ000310_31.0425.C5
Gene No.	121380	Strand	-
Start	7690	End	15036
Name	OJ000310_31.0425.C5.o1.tw	Method	TBLASTX:Wheat
Start	14393	End	14748
GI	none	Score	95
Exons	14393..14563, 14395..14748		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121381	Strand	+
Start	1	End	1888
Name	OJ000310_31.0425.C6.o1.np	Method	AAT/NAP
Start	1	End	1855
GI	2088650	Score	476
Exons	1..54, 137..189, 294..404, 725..793, 874..981, 1293..1361, 1453..1507, 1686..1855		
GI Descrip.	(AF002109) putative peroxisomal membrane carrier protein [Arabidopsis thaliana]		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121381	Strand	+
Start	1	End	1888
Name	OJ000310_31.0425.C6.o1.gs	Method	GENSCAN
Start	135	End	1888
GI	none	Score	.97
Exons	135..189, 294..404, 725..793, 874..981, 1453..1507, 1686..1888		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121382	Strand	+
Start	2959	End	4562
Name	OJ000310_31.0425.C6.o2.gs	Method	GENSCAN
Start	2959	End	4562
GI	none	Score	.94
Exons	2959..3892, 4087..4158, 4501..4562		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121382	Strand	+
Start	2959	End	4562
Name	OJ000310_31.0425.C6.o2.np	Method	AAT/NAP
Start	3007	End	3846

GI	3914666	Score	828
Exons	3007..3846		
GI Descrip.	50S RIBOSOMAL PROTEIN L4, CHLOROPLAST PRECURSOR (R-PROTEIN L4) gi|2791998|emb|CAA74895.1| (Y14566) ribosomal protein L4 [Arabidopsis thaliana] gi|2792000|emb|CAA74894.1| (Y14565) ribosomal protein L4 [Arabidopsis thaliana]		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121383	Strand	+
Start	11120	End	11633
Name	OJ000310_31.0425.C6.o3.gp	Method	AAT/GAP
Start	11120	End	11633
GI	none	Score	763
Exons	11120..11200, 11288..11633		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121384	Strand	+
Start	12855	End	13395
Name	OJ000310_31.0425.C6.o4.gp	Method	AAT/GAP
Start	12855	End	13395
GI	none	Score	955
Exons	12855..13395		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121385	Strand	+
Start	13483	End	15731
Name	OJ000310_31.0425.C6.o4.np	Method	AAT/NAP
Start	13483	End	15731
GI	2088647	Score	1523
Exons	13483..13971, 14351..14837, 14949..15731		
GI Descrip.	(AF002109) unknown protein [Arabidopsis thaliana] gi|3158394 (AF036340) LRR-containing F-box protein [Arabidopsis thaliana]		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121385	Strand	+
Start	13483	End	15731
Name	OJ000310_31.0425.C6.o5.gp	Method	AAT/GAP
Start	13624	End	14453
GI	uC-osflcyp139f10b1	Score	832
Exons	13624..13971, 14351..14453		
GI Descrip.	'2088647 2.0e-41 (AF002109) hypothetical protein [Arabidopsis thaliana] >gi_3158394 (AF036340) LRR-containing F-box protein [Arabidopsis thaliana]'		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121386	Strand	+
Start	19062	End	20487
Name	OJ000310_31.0425.C6.o6.np	Method	AAT/NAP
Start	19062	End	20487
GI	5852084	Score	77
Exons	19062..19089, 20404..20487		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121387	Strand	-
Start	1694	End	2203
Name	OJ000310_31.0425.C6.o2.gp	Method	AAT/GAP

Start	1694	End	2203
GI	50074_1.R1084	Score	956
Exons	1694..2203		
GI Descrip.	'1781299/emb|CAA70700| 5.0e-15 (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]'		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121388	Strand	-
Start	6810	End	6968
Name	OJ000310_31.0425.C6.o3.gs	Method	GENSCAN
Start	6810	End	6968
GI	none	Score	.99
Exons	6810..6968		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121389	Strand	-
Start	9508	End	10983
Name	OJ000310_31.0425.C6.o3.np	Method	AAT/NAP
Start	8231	End	8319
GI	5852093	Score	57
Exons	8231..8319		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121389	Strand	-
Start	9508	End	10983
Name	OJ000310_31.0425.C6.o4.gs	Method	GENSCAN
Start	9508	End	10983
GI	none	Score	.58
Exons	9508..9928, 9934..10150, 10962..10983		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121390	Strand	-
Start	15553	End	16065
Name	OJ000310_31.0425.C6.o6.gp	Method	AAT/GAP
Start	15553	End	16065
GI	none	Score	1022
Exons	15553..16065		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o7.tm	Method	TBLASTX:Maize
Start	109	End	905
GI	none	Score	99
Exons	109..189, 109..189, 273..404, 289..408, 290..403, 726..794, 727..795, 727..798, 728..796, 873..905, 874..903		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o3.tc	Method	TBLASTX:Cress
Start	725	End	1852
GI	none	Score	93
Exons	725..796, 725..799, 873..944, 874..942, 928..981, 1287..1361, 1292..1360, 1447..1512, 1458..1520, 1684..1836, 1685..1852		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o6.tm	Method	TBLASTX:Maize
Start	906	End	1891
GI	none	Score	80
Exons	906..980, 916..984, 916..990, 1280..1366, 1287..1361, 1292..1363, 1293..1376, 1425..1526, 1439..1513, 1447..1524, 1684..1887, 1684..1887, 1685..1891, 1688..1888		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o7.ts	Method	TBLASTX:Soybean
Start	1682	End	1873
GI	none	Score	199
Exons	1682..1873, 1683..1856, 1684..1863		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o2.tm	Method	TBLASTX:Maize
Start	3102	End	5290
GI	none	Score	620
Exons	3102..3482, 3103..3495, 3552..3794, 3553..3792, 5092..5124, 5183..5233, 5231..5290		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o2.tc	Method	TBLASTX:Cress
Start	3133	End	3783
GI	none	Score	503
Exons	3133..3495, 3177..3482, 3555..3782, 3556..3783, 3556..3783		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o4.ts	Method	TBLASTX:Soybean
Start	3157	End	3366
GI	none	Score	294
Exons	3157..3366, 3171..3365		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o5.ts	Method	TBLASTX:Soybean
Start	3541	End	3783
GI	none	Score	123
Exons	3541..3771, 3555..3782, 3555..3782, 3556..3783		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o3.tm	Method	TBLASTX:Maize
Start	13486	End	13902
GI	none	Score	619

Exons	13486..13641, 13518..13901, 13519..13902, 13744..13902		
Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o6.ts	Method	TBLASTX:Soybean
Start	13495	End	13758
GI	none	Score	268
Exons	13495..13635, 13528..13758, 13533..13757		
Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o1.tc	Method	TBLASTX:Cress
Start	13534	End	15710
GI	none	Score	380
Exons	13534..13893, 13569..13775, 13910..13972, 14394..14471, 14475..14624, 14652..14837, 14688..14831, 14934..15062, 14951..15007, 15039..15614, 15071..15613, 15093..15614, 15651..15710		
Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o2.ts	Method	TBLASTX:Soybean
Start	13759	End	15062
GI	none	Score	119
Exons	13759..13899, 13910..13972, 14346..14405, 14394..14474, 14493..14633, 14637..14837, 14669..14905, 14934..15062		
Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o1.tm	Method	TBLASTX:Maize
Start	13910	End	15472
GI	none	Score	91
Exons	13910..13972, 13912..13980, 14344..14838, 14346..14840, 14346..14840, 14939..15007, 14946..15470, 14948..15007, 15052..15201, 15063..15470, 15077..15472, 15089..15472		
Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o1.tw	Method	TBLASTX:Wheat
Start	15036	End	15425
GI	none	Score	444
Exons	15036..15425, 15083..15178, 15236..15418		
Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o1.ts	Method	TBLASTX:Soybean
Start	15224	End	15719
GI	none	Score	89
Exons	15224..15415, 15225..15479, 15225..15473, 15227..15475, 15469..15609, 15470..15613, 15474..15614, 15590..15718, 15627..15719		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o5.tm	Method	TBLASTX:Maize
Start	15474	End	16047
GI	none	Score	329
Exons	15474..15746, 15475..15747, 15476..15748, 15477..15737, 15524..15739, 15943..16047		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o6.gs	Method	GENSCAN
Start	17091	End	24904
GI	none	Score	.66
Exons	17091..17656, 17661..17762, 17886..17949, 18272..18421, 18493..18604, 18868..18890, 19662..19832, 21952..22401, 23013..23068, 24605..24803, 24818..24904		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o4.tm	Method	TBLASTX:Maize
Start	17130	End	18695
GI	none	Score	78
Exons	17130..17192, 17133..17231, 17137..17367, 17138..17209, 17256..17366, 17258..17368, 17269..17367, 17269..17397, 17408..17446, 17408..17485, 17413..17481, 17507..17548, 17511..17540, 17550..17663, 17585..17665, 17585..17677, 17589..17714, 17609..17677, 17686..17751, 17688..17753, 17688..17750, 17884..17952, 17885..17953, 17885..17953, 18050..18079, 18050..18079, 18052..18081, 18094..18219, 18099..18221, 18117..18251, 18259..18333, 18264..18434, 18264..18422, 18269..18424, 18488..18580, 18490..18609, 18490..18606, 18492..18695		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o7.gp	Method	AAT/GAP
Start	17250	End	17770
GI	15883_1.R1084	Score	1012
Exons	17250..17770		
GI Descrip.	'1781299/emb|CAA70700| 5.0e-15 (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]'		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o2.tw	Method	TBLASTX:Wheat
Start	17269	End	17956
GI	none	Score	85
Exons	17269..17361, 17335..17391, 17547..17645, 17550..17645, 17567..17677, 17580..17750, 17580..17750, 17587..17751, 17713..17751, 17882..17956, 17885..17956		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o5.np	Method	AAT/NAP
Start	17499	End	19916
GI	7489207	Score	289
Exons	17499..17704, 17882..17949, 18272..18407, 18479..18604, 18720..18781, 19821..19916		
GI Descrip.	transformer-SR ribonucleoprotein - common tobacco (fragment) gi|1781299|emb|CAA70700.1| (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o3.ts	Method	TBLASTX:Soybean
Start	18267	End	18594
GI	none	Score	176
Exons	18267..18422, 18267..18413, 18269..18424, 18488..18580, 18489..18593, 18490..18594		

Seq. No.	58047	Seq. ID	OJ000310_31.0425.C6
Gene No.	121391	Strand	-
Start	17091	End	24904
Name	OJ000310_31.0425.C6.o8.gp	Method	AAT/GAP
Start	18280	End	19800
GI	3760422	Score	670
Exons	18280..18421, 18493..18601, 18720..18788, 18868..18890, 19748..19800		
GI Descrip.	1781299/emb|CAA70700| 5.0e-15 (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]		

Seq. No.	58048	Seq. ID	OJ000310_31.0425.C7
Gene No.	121392	Strand	+
Start	1	End	3657
Name	OJ000310_31.0425.C7.o1.np	Method	AAT/NAP
Start	1	End	3657
GI	4309760	Score	678
Exons	1..107, 346..449, 742..1007, 1428..1534, 1674..1736, 1997..2097, 3608..3657		
GI Descrip.	(AC006217) unknown protein [Arabidopsis thaliana]		

Seq. No.	58048	Seq. ID	OJ000310_31.0425.C7
Gene No.	121392	Strand	+
Start	1	End	3657
Name	OJ000310_31.0425.C7.o1.tm	Method	TBLASTX:Maize
Start	2	End	833
GI	none	Score	100
Exons	2..70, 3..71, 72..104, 73..93, 195..263, 196..264, 200..265, 343..441, 343..438, 345..452, 345..440, 772..831, 777..833, 779..832, 783..833		

Seq. No.	58048	Seq. ID	OJ000310_31.0425.C7
Gene No.	121392	Strand	+
Start	1	End	3657
Name	OJ000310_31.0425.C7.o1.gs	Method	GENSCAN
Start	197	End	3464

GI	none	Score	.71
Exons	197..256, 346..438, 779..1007, 1428..1534, 1674..1736, 1997..2097, 3110..3204, 3444..3464		

Seq. No.	58049	Seq. ID	OJ000310_31.0425.C8
Gene No.	121393	Strand	
Start	258	End	596
Name	OJ000310_31.0425.C8.o1.tm	Method	TBLASTX:Maize
Start	258	End	596
GI	none	Score	144
Exons	258..383, 259..384, 488..589, 489..596		

Seq. No.	58050	Seq. ID	OJ000310_31.0425.C9
Gene No.	121394	Strand	+
Start	61	End	971
Name	OJ000310_31.0425.C9.o2.tc	Method	TBLASTX:Cress
Start	1	End	244
GI	none	Score	173
Exons	1..123, 3..122, 197..244, 208..243		

Seq. No.	58050	Seq. ID	OJ000310_31.0425.C9
Gene No.	121394	Strand	+
Start	61	End	971
Name	OJ000310_31.0425.C9.o2.tm	Method	TBLASTX:Maize
Start	39	End	403
GI	none	Score	86
Exons	39..119, 39..122, 40..123, 197..400, 209..403		

Seq. No.	58050	Seq. ID	OJ000310_31.0425.C9
Gene No.	121394	Strand	+
Start	61	End	971
Name	OJ000310_31.0425.C9.o1.gs	Method	GENSCAN
Start	61	End	941
GI	none	Score	.92
Exons	61..120, 209..397, 479..720, 795..941		

Seq. No.	58050	Seq. ID	OJ000310_31.0425.C9
Gene No.	121394	Strand	+
Start	61	End	971
Name	OJ000310_31.0425.C9.o1.np	Method	AAT/NAP
Start	182	End	936
GI	4309759	Score	768
Exons	182..397, 479..720, 795..936		
GI Descrip.	(AC006217) unknown protein [Arabidopsis thaliana]		

Seq. No.	58050	Seq. ID	OJ000310_31.0425.C9
Gene No.	121394	Strand	+
Start	61	End	971
Name	OJ000310_31.0425.C9.o1.ts	Method	TBLASTX:Soybean
Start	262	End	941
GI	none	Score	222
Exons	262..396, 263..400, 263..397, 476..715, 478..720, 479..727, 793..936, 882..941		

Seq. No.	58050	Seq. ID	OJ000310_31.0425.C9
Gene No.	121394	Strand	+
Start	61	End	971

Name	OJ000310_31.0425.C9.o1.tc	Method	TBLASTX:Cress
Start	364	End	721
GI	none	Score	67
Exons	364..399, 365..400, 476..709,	479..721,	484..720

Seq. No.	58050	Seq. ID	OJ000310_31.0425.C9
Gene No.	121394	Strand	+
Start	61	End	971
Name	OJ000310_31.0425.C9.o1.tm	Method	TBLASTX:Maize
Start	455	End	971
GI	none	Score	400
Exons	455..721, 463..720, 793..939, 882..971	797..940,	862..939, 863..955,

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121395	Strand	+
Start	187	End	4956
Name	OJ000310_31.0425.C10.o1.gp	Method	AAT/GAP
Start	187	End	1222
GI	29605_1.R1084	Score	699
Exons	187..341, 649..828, 1155..1222		
GI Descrip.	'4309759/gb|AAD15528| 3.0e-50 (AC006217) unknown protein with Src homology 3 (SH3) domain profile (PDOC50002) [Arabidopsis thaliana]'		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121395	Strand	+
Start	187	End	4956
Name	OJ000310_31.0425.C10.o1.gs	Method	GENSCAN
Start	198	End	4956
GI	none	Score	.47
Exons	198..341, 649..828, 1155..1214, 4472..4492, 4504..4956		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121395	Strand	+
Start	187	End	4956
Name	OJ000310_31.0425.C10.o1.np	Method	AAT/NAP
Start	198	End	1374
GI	4309759	Score	388
Exons	198..386, 649..828, 1155..1214, 1303..1374		
GI Descrip.	(AC006217) unknown protein [Arabidopsis thaliana]		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121395	Strand	+
Start	187	End	4956
Name	OJ000310_31.0425.C10.o2.gp	Method	AAT/GAP
Start	1331	End	1990
GI	34852_1.R1084	Score	1252
Exons	1331..1990		
GI Descrip.	'1781299/emb|CAA70700| 5.0e-15 (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]'		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121396	Strand	+
Start	4873	End	5725
Name	OJ000310_31.0425.C10.o3.gp	Method	AAT/GAP
Start	4873	End	5725

GI	none	Score	1662
Exons	4873..5725		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121397	Strand	+
Start	6481	End	8807
Name	OJ000310_31.0425.C10.o3.gs	Method	GENSCAN
Start	6481	End	8807
GI	none	Score	.66
Exons	6481..6769, 7056..7238, 7255..7305, 8656..8807		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121398	Strand	-
Start	5404	End	6263
Name	OJ000310_31.0425.C10.o2.ts	Method	TBLASTX:Soybean
Start	192	End	1217
GI	none	Score	95
Exons	192..314, 197..313, 645..746, 648..827, 649..831, 1152..1217		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121398	Strand	-
Start	5404	End	6263
Name	OJ000310_31.0425.C10.o1.ts	Method	TBLASTX:Soybean
Start	4600	End	4917
GI	none	Score	117
Exons	4600..4683, 4605..4682, 4741..4917, 4749..4859		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121398	Strand	-
Start	5404	End	6263
Name	OJ000310_31.0425.C10.o2.tm	Method	TBLASTX:Maize
Start	4602	End	4917
GI	none	Score	127
Exons	4602..4760, 4603..4761, 4746..4859, 4747..4917		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121398	Strand	-
Start	5404	End	6263
Name	OJ000310_31.0425.C10.o1.tm	Method	TBLASTX:Maize
Start	5267	End	6217
GI	none	Score	46
Exons	5267..5305, 5318..5380, 5330..5368, 5390..5446, 5398..5445, 5571..5657, 5575..5670, 5579..5656, 5683..5712, 5684..5713, 5766..5909, 5820..5915, 5821..5910, 6013..6072, 6064..6204, 6089..6217		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121398	Strand	-
Start	5404	End	6263
Name	OJ000310_31.0425.C10.o2.gs	Method	GENSCAN
Start	5404	End	6225
GI	none	Score	.68
Exons	5404..5445, 5572..5712, 5820..5960, 6013..6225		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121398	Strand	-
Start	5404	End	6263

Name	OJ000310_31.0425.C10.o2.np	Method	AAT/NAP
Start	5404	End	6231
GI	2464852	Score	172
Exons	5404..5445, 5566..5712, 5820..5915, 6013..6231		
GI Descrip.	(Z99707) putative protein [Arabidopsis thaliana]		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121398	Strand	-
Start	5404	End	6263
Name	OJ000310_31.0425.C10.o4.gp	Method	AAT/GAP
Start	5948	End	6263
GI	LIB3434-026-P1-K1-C8	Score	551
Exons	5948..6263		
GI Descrip.	'1781299/emb|CAA70700| 5.0e-15 (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]'		

Seq. No.	58051	Seq. ID	OJ000310_31.0425.C10
Gene No.	121399	Strand	
Start	6738	End	7326
Name	OJ000310_31.0425.C10.o3.tm	Method	TBLASTX:Maize
Start	6738	End	7326
GI	none	Score	41
Exons	6738..6785, 6861..6917, 6960..7001, 6960..7010, 7061..7183, 7087..7176, 7249..7323, 7254..7322, 7258..7326		

Seq. No.	58052	Seq. ID	OJ000310_31.0425.C11
Gene No.	121400	Strand	-
Start	674	End	2066
Name	OJ000310_31.0425.C11.o1.gs	Method	GENSCAN
Start	674	End	2066
GI	none	Score	.65
Exons	674..996, 1946..2066		

Seq. No.	58052	Seq. ID	OJ000310_31.0425.C11
Gene No.	121401	Strand	-
Start	2965	End	3818
Name	OJ000310_31.0425.C11.o1.tm	Method	TBLASTX:Maize
Start	935	End	1939
GI	none	Score	86
Exons	935..988, 938..988, 1778..1822, 1778..1939, 1779..1928, 1780..1932, 1780..1851		

Seq. No.	58052	Seq. ID	OJ000310_31.0425.C11
Gene No.	121401	Strand	-
Start	2965	End	3818
Name	OJ000310_31.0425.C11.o1.tw	Method	TBLASTX:Wheat
Start	1796	End	1937
GI	none	Score	196
Exons	1796..1924, 1798..1923, 1818..1937, 1828..1929		

Seq. No.	58052	Seq. ID	OJ000310_31.0425.C11
Gene No.	121401	Strand	-
Start	2965	End	3818
Name	OJ000310_31.0425.C11.o2.gs	Method	GENSCAN
Start	2965	End	3818
GI	none	Score	.88
Exons	2965..3224, 3708..3818		

Seq. No.	58053	Seq. ID	OJ000310_31.0425.C12
Gene No.	121402	Strand	+
Start	404	End	2022
Name	OJ000310_31.0425.C12.o1.gp	Method	AAT/GAP
Start	404	End	1562
GI	32464_1.R1084	Score	938
Exons	404..731, 1152..1251, 1367..1404, 1520..1562		
GI Descrip.	'1841464/emb|CAA71891| 9.0e-42 (Y11002) LIM-domain SF3 protein [Nicotiana tabacum] >gi_5932420_gb_AAD56951.1_AF184886_1 (AF184886) LIM domain protein WLIM2 [Nicotiana tabacum]'		

Seq. No.	58053	Seq. ID	OJ000310_31.0425.C12
Gene No.	121402	Strand	+
Start	404	End	2022
Name	OJ000310_31.0425.C12.o1.tm	Method	TBLASTX:Maize
Start	479	End	1612
GI	none	Score	35
Exons	479..511, 599..733, 600..734, 1142..1249, 1146..1253, 1152..1250, 1156..1266, 1368..1409, 1529..1612, 1546..1611		

Seq. No.	58053	Seq. ID	OJ000310_31.0425.C12
Gene No.	121402	Strand	+
Start	404	End	2022
Name	OJ000310_31.0425.C12.o1.ts	Method	TBLASTX:Soybean
Start	594	End	1614
GI	none	Score	186
Exons	594..734, 594..713, 596..712, 605..724, 1142..1225, 1146..1226, 1158..1235, 1172..1234, 1229..1252, 1491..1613, 1519..1614, 1520..1612, 1541..1612		

Seq. No.	58053	Seq. ID	OJ000310_31.0425.C12
Gene No.	121402	Strand	+
Start	404	End	2022
Name	OJ000310_31.0425.C12.o1.tw	Method	TBLASTX:Wheat
Start	594	End	1614
GI	none	Score	243
Exons	594..731, 594..689, 596..730, 599..688, 1146..1253, 1157..1249, 1354..1404, 1368..1409, 1519..1614, 1519..1611, 1520..1612, 1523..1612		

Seq. No.	58053	Seq. ID	OJ000310_31.0425.C12
Gene No.	121402	Strand	+
Start	404	End	2022
Name	OJ000310_31.0425.C12.o1.np	Method	AAT/NAP
Start	597	End	2022
GI	7489184	Score	400
Exons	597..731, 1152..1251, 1370..1404, 1520..1631, 1838..2022		
GI Descrip.	probable transcription factor SF3 - common tobacco gi|1841464|emb|CAA71891.1| (Y11002) LIM-domain SF3 protein [Nicotiana tabacum] gi|5932420|gb|AAD56951.1|AF184886_1 (AF184886) LIM domain protein WLIM2 [Nicotiana tabacum]		

Seq. No.	58053	Seq. ID	OJ000310_31.0425.C12
Gene No.	121402	Strand	+
Start	404	End	2022
Name	OJ000310_31.0425.C12.o1.gs	Method	GENSCAN

Start	600	End	1609
GI	none	Score	.76
Exons	600..731, 1152..1251, 1367..1404, 1520..1609		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121403	Strand	+
Start	1968	End	3508
Name	OJ000310_31.0425.C14.o1.gs	Method	GENSCAN
Start	1968	End	3508
GI	none	Score	.56
Exons	1968..2048, 2866..3165, 3401..3508		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121404	Strand	-
Start	44	End	3338
Name	OJ000310_31.0425.C14.o1.gp	Method	AAT/GAP
Start	44	End	649
GI	none	Score	343
Exons	44..153, 520..649		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121404	Strand	-
Start	44	End	3338
Name	OJ000310_31.0425.C14.o1.np	Method	AAT/NAP
Start	217	End	2150
GI	7022161	Score	188
Exons	217..311, 499..680, 791..976, 1477..1632, 2074..2150		
GI Descrip.	(AK001105) unnamed protein product [Homo sapiens]		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121404	Strand	-
Start	44	End	3338
Name	OJ000310_31.0425.C14.o1.tc	Method	TBLASTX:Cress
Start	521	End	979
GI	none	Score	98
Exons	521..655, 522..647, 791..979, 800..868, 883..975		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121404	Strand	-
Start	44	End	3338
Name	OJ000310_31.0425.C14.o1.tm	Method	TBLASTX:Maize
Start	548	End	932
GI	none	Score	195
Exons	548..700, 549..701, 791..931, 794..931, 798..932, 801..932		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121404	Strand	-
Start	44	End	3338
Name	OJ000310_31.0425.C14.o1.ts	Method	TBLASTX:Soybean
Start	916	End	2192
GI	none	Score	82
Exons	916..972, 1470..1634, 1480..1629, 2085..2192		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121404	Strand	-
Start	44	End	3338
Name	OJ000310_31.0425.C14.o2.tm	Method	TBLASTX:Maize

Start	934	End	1627
GI	none	Score	193
Exons	934..975, 1470..1625, 1478..1627		

Seq. No.	58054	Seq. ID	OJ000310_31.0425.C14
Gene No.	121404	Strand	-
Start	44	End	3338
Name	OJ000310_31.0425.C14.o2.gp	Method	AAT/GAP
Start	1609	End	3338
GI	none	Score	830
Exons	1609..1632, 2074..2282, 3105..3338		

Seq. No.	58055	Seq. ID	OJ000310_31.0425.C15
Gene No.	121405	Strand	+
Start	2127	End	2222
Name	OJ000310_31.0425.C15.o1.gp	Method	AAT/GAP
Start	2127	End	2222
GI	uC-osflcyp022c06b2	Score	144
Exons	2127..2222		
GI Descrip.	'5042437/gb|AC007789.1|AC007789 8.0e-25 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	58055	Seq. ID	OJ000310_31.0425.C15
Gene No.	121406	Strand	-
Start	3362	End	3537
Name	OJ000310_31.0425.C15.o1.np	Method	AAT/NAP
Start	3362	End	3537
GI	5091528	Score	185
Exons	3362..3537		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	58056	Seq. ID	OJ000330_31.0424.C1
Gene No.	121407	Strand	+
Start	134	End	202
Name	OJ000330_31.0424.C1.o1.gs	Method	GENSCAN
Start	134	End	202
GI	none	Score	72
Exons	134..202		

Seq. No.	58057	Seq. ID	OJ000330_31.0424.C7
Gene No.	121408	Strand	+
Start	1176	End	1610
Name	OJ000330_31.0424.C7.o1.gp	Method	AAT/GAP
Start	1176	End	1610
GI	42836_1.R1084	Score	652
Exons	1176..1393, 1489..1610		
GI Descrip.	'5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	58058	Seq. ID	OJ000330_31.0424.C8
Gene No.	121409	Strand	+
Start	1	End	3170
Name	OJ000330_31.0424.C8.o1.np	Method	AAT/NAP
Start	1	End	3170
GI	7484799	Score	714
Exons	1..25, 518..837, 2440..2723, 2823..3170		
GI Descrip.	alliin lyase homolog F22K18.130 - Arabidopsis thaliana		

gi|4220523|emb|CAA22996.1| (AL035356) putative alliin lyase [Arabidopsis thaliana] gi|7269317|emb|CAB79377.1| (AL161561) putative alliin lyase [Arabidopsis thaliana]

Seq. No.	58058	Seq. ID	OJ000330_31.0424.C8
Gene No.	121409	Strand	+
Start	1	End	3170
Name	OJ000330_31.0424.C8.o1.gs	Method	GENSCAN
Start	75	End	3141
GI	none	Score	.91
Exons	75..176, 522..837, 2440..2757, 2823..3141		

Seq. No.	58058	Seq. ID	OJ000330_31.0424.C8
Gene No.	121409	Strand	+
Start	1	End	3170
Name	OJ000330_31.0424.C8.o2.tm	Method	TBLASTX:Maize
Start	124	End	861
GI	none	Score	69
Exons	124..174, 514..747, 522..746, 796..861		

Seq. No.	58058	Seq. ID	OJ000330_31.0424.C8
Gene No.	121409	Strand	+
Start	1	End	3170
Name	OJ000330_31.0424.C8.o1.tc	Method	TBLASTX:Cress
Start	514	End	2673
GI	none	Score	272
Exons	514..747, 522..737, 802..837, 2431..2517, 2442..2516, 2521..2595, 2523..2576, 2586..2651, 2599..2673		

Seq. No.	58058	Seq. ID	OJ000330_31.0424.C8
Gene No.	121409	Strand	+
Start	1	End	3170
Name	OJ000330_31.0424.C8.o1.ts	Method	TBLASTX:Soybean
Start	2428	End	2667
GI	none	Score	89
Exons	2428..2508, 2469..2507, 2509..2595, 2520..2573, 2587..2640, 2599..2667		

Seq. No.	58058	Seq. ID	OJ000330_31.0424.C8
Gene No.	121409	Strand	+
Start	1	End	3170
Name	OJ000330_31.0424.C8.o1.tm	Method	TBLASTX:Maize
Start	2454	End	3140
GI	none	Score	71
Exons	2454..2567, 2454..2576, 2455..2580, 2524..2577, 2531..2638, 2587..2727, 2590..2724, 2601..2744, 2823..2924, 2824..2925, 2922..3140, 2996..3139		

Seq. No.	58059	Seq. ID	OJ000330_31.0424.C9
Gene No.	121410	Strand	+
Start	1941	End	3147
Name	OJ000330_31.0424.C9.o1.gs	Method	GENSCAN
Start	1941	End	3147
GI	none	Score	.5
Exons	1941..2186, 2275..2459, 2509..2757, 2865..3147		

Seq. No.	58059	Seq. ID	OJ000330_31.0424.C9

Gene No.	121411	Strand	+
Start	3738	End	4760
Name	OJ000330_31.0424.C9.o2.gs	Method	GENSCAN
Start	3738	End	4760
GI	none	Score	.81
Exons	3738..4448, 4677..4760		

Seq. No.	58059	Seq. ID	OJ000330_31.0424.C9
Gene No.	121412	Strand	-
Start	1	End	3234
Name	OJ000330_31.0424.C9.o1.np	Method	AAT/NAP
Start	1	End	3234
GI	7339707	Score	807
Exons	1..33, 1667..1781, 2669..3234		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121413	Strand	+
Start	654	End	1903
Name	OJ000330_31.0424.C11.o1.gs	Method	GENSCAN
Start	654	End	1903
GI	none	Score	.84
Exons	654..773, 1804..1903		

Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121414	Strand	+
Start	2864	End	5320
Name	OJ000330_31.0424.C11.o2.gs	Method	GENSCAN
Start	2864	End	5211
GI	none	Score	.9
Exons	2864..4105, 4963..5211		

Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121414	Strand	+
Start	2864	End	5320
Name	OJ000330_31.0424.C11.o1.np	Method	AAT/NAP
Start	2876	End	5320
GI	4106395	Score	1828
Exons	2876..4105, 4963..5320		
GI Descrip.	(AF073744) raffinose synthase [Cucumis sativus]		

Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121414	Strand	+
Start	2864	End	5320
Name	OJ000330_31.0424.C11.o1.tm	Method	TBLASTX:Maize
Start	2936	End	5319
GI	none	Score	166
Exons	2936..3010, 3061..3231, 3071..3247, 3287..3355, 3334..3708, 3341..3685, 3841..3882, 3842..3883, 3935..4108, 4010..4096, 4078..4110, 4963..5103, 5092..5169, 5196..5318, 5206..5319		

Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121414	Strand	+
Start	2864	End	5320
Name	OJ000330_31.0424.C11.o1.tc	Method	TBLASTX:Cress
Start	3023	End	5319
GI	none	Score	159

Exons	3023..3253, 3067..3228, 3242..3415, 3340..3684, 3341..3682, 3842..3883, 3935..4099, 4963..5130, 5266..5319		
Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121414	Strand	+
Start	2864	End	5320
Name	OJ000330_31.0424.C11.o2.ts	Method	TBLASTX:Soybean
Start	3070	End	3883
GI	none	Score	160
Exons	3070..3228, 3071..3265, 3233..3337, 3341..3673, 3370..3690, 3842..3883		
Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121414	Strand	+
Start	2864	End	5320
Name	OJ000330_31.0424.C11.o1.ts	Method	TBLASTX:Soybean
Start	4001	End	5319
GI	none	Score	87
Exons	4001..4108, 4954..5319, 4965..5318		
Seq. No.	58060	Seq. ID	OJ000330_31.0424.C11
Gene No.	121414	Strand	+
Start	2864	End	5320
Name	OJ000330_31.0424.C11.o1.gp	Method	AAT/GAP
Start	4951	End	5320
GI	13362_1.R1084	Score	703
Exons	4951..5320		
GI Descrip.	'4106395 6.0e-85 (AF073744) raffinose synthase [Cucumis sativus]'		
Seq. No.	58061	Seq. ID	OJ000330_31.0424.C12
Gene No.	121415	Strand	+
Start	175	End	553
Name	OJ000330_31.0424.C12.o1.gp	Method	AAT/GAP
Start	175	End	553
GI	3769067	Score	703
Exons	175..553		
Seq. No.	58061	Seq. ID	OJ000330_31.0424.C12
Gene No.	121416	Strand	+
Start	2994	End	3314
Name	OJ000330_31.0424.C12.o2.gs	Method	GENSCAN
Start	2994	End	3314
GI	none	Score	.49
Exons	2994..3314		
Seq. No.	58061	Seq. ID	OJ000330_31.0424.C12
Gene No.	121417	Strand	-
Start	1	End	3570
Name	OJ000330_31.0424.C12.o1.np	Method	AAT/NAP
Start	1	End	3570
GI	7339707	Score	96
Exons	1..228, 1234..1453, 2942..3046, 3536..3570		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		
Seq. No.	58061	Seq. ID	OJ000330_31.0424.C12
Gene No.	121417	Strand	-

Start	1	End	3570
Name	OJ000330_31.0424.C12.o1.tm	Method	TBLASTX:Maize
Start	171	End	367
GI	none	Score	203
Exons	171..347, 204..356, 212..367		

Seq. No.	58062	Seq. ID	OJ000330_31.0424.C13
Gene No.	121418	Strand	+
Start	77	End	772
Name	OJ000330_31.0424.C13.o1.tm	Method	TBLASTX:Maize
Start	1	End	739
GI	none	Score	259
Exons	1..165, 2..175, 2..181, 245..592, 283..378, 285..569, 539..739		

Seq. No.	58062	Seq. ID	OJ000330_31.0424.C13
Gene No.	121418	Strand	+
Start	77	End	772
Name	OJ000330_31.0424.C13.o1.gs	Method	GENSCAN
Start	77	End	772
GI	none	Score	.79
Exons	77..772		

Seq. No.	58063	Seq. ID	OJ000330_31.0424.C17
Gene No.	121419	Strand	+
Start	695	End	2581
Name	OJ000330_31.0424.C17.o1.gs	Method	GENSCAN
Start	695	End	2581
GI	none	Score	1
Exons	695..2581		

Seq. No.	58063	Seq. ID	OJ000330_31.0424.C17
Gene No.	121420	Strand	-
Start	3102	End	3722
Name	OJ000330_31.0424.C17.o1.tm	Method	TBLASTX:Maize
Start	1466	End	1714
GI	none	Score	84
Exons	1466..1519, 1466..1519, 1491..1523, 1608..1643, 1619..1714, 1619..1711		

Seq. No.	58063	Seq. ID	OJ000330_31.0424.C17
Gene No.	121420	Strand	-
Start	3102	End	3722
Name	OJ000330_31.0424.C17.o2.gs	Method	GENSCAN
Start	3102	End	3722
GI	none	Score	.94
Exons	3102..3458, 3639..3722		

Seq. No.	58064	Seq. ID	OJ000330_31.0424.C18
Gene No.	121421	Strand	+
Start	412	End	1061
Name	OJ000330_31.0424.C18.o1.gs	Method	GENSCAN
Start	412	End	1061
GI	none	Score	.71
Exons	412..553, 825..837, 928..1061		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-

Start	1	End	1241
Name	OJ000330_31.0424.C21.o1.gp	Method	AAT/GAP
Start	1	End	303
GI	none	Score	588
Exons	1..303		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o1.np	Method	AAT/NAP
Start	1	End	1241
GI	1946369	Score	308
Exons	1..836, 933..1241		
GI Descrip.	(U93215) unknown protein [Arabidopsis thaliana]		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o1.tm	Method	TBLASTX:Maize
Start	4	End	594
GI	none	Score	141
Exons	4..594, 8..232, 39..275, 95..232, 341..505, 365..472		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o1.gs	Method	GENSCAN
Start	45	End	1185
GI	none	Score	.91
Exons	45..1185		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o2.gp	Method	AAT/GAP
Start	594	End	958
GI	none	Score	687
Exons	594..958		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o1.tw	Method	TBLASTX:Wheat
Start	615	End	795
GI	none	Score	175
Exons	615..794, 615..794, 712..795		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o2.tm	Method	TBLASTX:Maize
Start	740	End	1094
GI	none	Score	139
Exons	740..862, 741..860, 741..878, 742..861, 827..865, 881..955, 883..972, 1000..1086, 1002..1088, 1003..1086, 1008..1094		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21

Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o1.tc	Method	TBLASTX:Cress
Start	997	End	1188
GI	none	Score	70
Exons	997..1188, 1013..1135, 1027..1188		

Seq. No.	58065	Seq. ID	OJ000330_31.0424.C21
Gene No.	121422	Strand	-
Start	1	End	1241
Name	OJ000330_31.0424.C21.o1.ts	Method	TBLASTX:Soybean
Start	1009	End	1191
GI	none	Score	81
Exons	1009..1191, 1018..1191		

Seq. No.	58066	Seq. ID	OJ000330_31.0424.C22
Gene No.	121423	Strand	+
Start	1	End	347
Name	OJ000330_31.0424.C22.o1.gp	Method	AAT/GAP
Start	1	End	246
GI	24347_1.R1084	Score	202
Exons	1..90, 210..246		
GI Descrip.	'5732705/gb|AAD49233.1|AF159388_1 1.0e-41 (AF159388) thioredoxin-like protein [Phalaris coerulescens] >gi_5732707_gb_AAD49234.1_AF159389_1 (AF159389) thioredoxin-like protein [Phalaris coerulescens]'		

Seq. No.	58066	Seq. ID	OJ000330_31.0424.C22
Gene No.	121423	Strand	+
Start	1	End	347
Name	OJ000330_31.0424.C22.o1.np	Method	AAT/NAP
Start	1	End	344
GI	1085953	Score	317
Exons	1..90, 210..344		
GI Descrip.	hypothetical protein S2 - Phalaris coerulescens		

Seq. No.	58066	Seq. ID	OJ000330_31.0424.C22
Gene No.	121423	Strand	+
Start	1	End	347
Name	OJ000330_31.0424.C22.o1.gs	Method	GENSCAN
Start	34	End	347
GI	none	Score	.86
Exons	34..90, 210..347		

Seq. No.	58066	Seq. ID	OJ000330_31.0424.C22
Gene No.	121424	Strand	-
Start	726	End	1415
Name	OJ000330_31.0424.C22.o1.tm	Method	TBLASTX:Maize
Start	1	End	344
GI	none	Score	145
Exons	1..90, 1..90, 3..92, 197..292, 208..336, 209..262, 231..344		

Seq. No.	58066	Seq. ID	OJ000330_31.0424.C22
Gene No.	121424	Strand	-
Start	726	End	1415
Name	OJ000330_31.0424.C22.o2.gs	Method	GENSCAN
Start	726	End	1415

GI	none	Score	.91
Exons	726..856, 1365..1415		

Seq. No.	58067	Seq. ID	OJ000330_31.0424.C23
Gene No.	121425	Strand	-
Start	1683	End	2791
Name	OJ000330_31.0424.C23.o1.np	Method	AAT/NAP
Start	1683	End	2791
GI	6069646	Score	372
Exons	1683..1982, 2743..2791		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121426	Strand	+
Start	2654	End	3544
Name	OJ000330_31.0424.C25.o1.gs	Method	GENSCAN
Start	2654	End	3544
GI	none	Score	.82
Exons	2654..2940, 3049..3544		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121426	Strand	+
Start	2654	End	3544
Name	OJ000330_31.0424.C25.o1.np	Method	AAT/NAP
Start	2672	End	3140
GI	2280530	Score	396
Exons	2672..2940, 3049..3140		
GI Descrip.	(AB005889) ATMYB4 [Arabidopsis thaliana]		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121427	Strand	+
Start	5876	End	6260
Name	OJ000330_31.0424.C25.o3.gs	Method	GENSCAN
Start	5876	End	6260
GI	none	Score	1
Exons	5876..5987, 6094..6260		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121428	Strand	-
Start	4370	End	5075
Name	OJ000330_31.0424.C25.o1.tw	Method	TBLASTX:Wheat
Start	2699	End	3133
GI	none	Score	268
Exons	2699..2941, 2713..2835, 2878..2949, 3046..3111, 3050..3133		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121428	Strand	-
Start	4370	End	5075
Name	OJ000330_31.0424.C25.o1.tc	Method	TBLASTX:Cress
Start	2702	End	3139
GI	none	Score	333
Exons	2702..2941, 2707..2943, 3046..3129, 3050..3139		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121428	Strand	-
Start	4370	End	5075
Name	OJ000330_31.0424.C25.o1.tm	Method	TBLASTX:Maize
Start	2702	End	3136
GI	none	Score	336
Exons	2702..2941, 2707..2943, 3046..3129, 3050..3136		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121428	Strand	-
Start	4370	End	5075
Name	OJ000330_31.0424.C25.o1.ts	Method	TBLASTX:Soybean
Start	2708	End	3136
GI	none	Score	301
Exons	2708..2941, 2710..2835, 3046..3111, 3050..3136		

Seq. No.	58068	Seq. ID	OJ000330_31.0424.C25
Gene No.	121428	Strand	-
Start	4370	End	5075
Name	OJ000330_31.0424.C25.o2.gs	Method	GENSCAN
Start	4370	End	5075
GI	none	Score	.96
Exons	4370..4575, 5066..5075		

Seq. No.	58069	Seq. ID	OJ000330_31.0424.C26
Gene No.	121429	Strand	-
Start	861	End	903
Name	OJ000330_31.0424.C26.o1.gs	Method	GENSCAN
Start	861	End	903
GI	none	Score	.52
Exons	861..903		

Seq. No.	58070	Seq. ID	OJ000330_31.0424.C28
Gene No.	121430	Strand	+
Start	2431	End	4830
Name	OJ000330_31.0424.C28.o1.np	Method	AAT/NAP
Start	2431	End	4830
GI	7438353	Score	299
Exons	2431..2581, 2734..2869, 3080..3285, 4793..4830		
GI Descrip.	myb-related protein 4 - rice gi|2605623|dbj|BAA23340.1| (D88620) OSMYB4 [Oryza sativa]		

Seq. No.	58070	Seq. ID	OJ000330_31.0424.C28
Gene No.	121431	Strand	+
Start	5290	End	7138
Name	OJ000330_31.0424.C28.o2.tm	Method	TBLASTX:Maize
Start	2739	End	3182
GI	none	Score	201
Exons	2739..2870, 2750..2872, 2774..2866, 2806..2871, 3026..3160, 3069..3161, 3072..3182		

Seq. No.	58070	Seq. ID	OJ000330_31.0424.C28
Gene No.	121431	Strand	+
Start	5290	End	7138
Name	OJ000330_31.0424.C28.o1.gp	Method	AAT/GAP
Start	5290	End	5525
GI	2431470	Score	389

Exons	5290..5525		
Seq. No.	58070	Seq. ID	OJ000330_31.0424.C28
Gene No.	121431	Strand	+
Start	5290	End	7138
Name	OJ000330_31.0424.C28.o2.np	Method	AAT/NAP
Start	5371	End	7138
GI	4006902	Score	145
Exons	5371..5756, 5784..6086, 6891..6975, 7076..7138		
GI Descrip.	(Z99708) putative protein [Arabidopsis thaliana]		
Seq. No.	58070	Seq. ID	OJ000330_31.0424.C28
Gene No.	121431	Strand	+
Start	5290	End	7138
Name	OJ000330_31.0424.C28.o1.ts	Method	TBLASTX:Soybean
Start	5383	End	5847
GI	none	Score	55
Exons	5383..5469, 5454..5486, 5458..5487, 5551..5739, 5556..5687, 5776..5847, 5796..5837		
Seq. No.	58070	Seq. ID	OJ000330_31.0424.C28
Gene No.	121431	Strand	+
Start	5290	End	7138
Name	OJ000330_31.0424.C28.o1.tm	Method	TBLASTX:Maize
Start	5389	End	6036
GI	none	Score	80
Exons	5389..5484, 5553..5696, 5554..5697, 5794..5859, 5799..5846, 5965..6036		
Seq. No.	58070	Seq. ID	OJ000330_31.0424.C28
Gene No.	121431	Strand	+
Start	5290	End	7138
Name	OJ000330_31.0424.C28.o2.gp	Method	AAT/GAP
Start	5926	End	7138
GI	20781_1.R1084	Score	560
Exons	5926..6078, 6880..6975, 7076..7138		
GI Descrip.	'4006902/emb|CAB16832.1| 1.0e-14 (Z99708) putative protein [Arabidopsis thaliana]'		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121432	Strand	+
Start	285	End	2815
Name	OJ000330_31.0424.C34.o1.gs	Method	GENSCAN
Start	285	End	2815
GI	none	Score	53
Exons	285..416, 2529..2815		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121432	Strand	+
Start	285	End	2815
Name	OJ000330_31.0424.C34.o1.gp	Method	AAT/GAP
Start	595	End	2000
GI	6024958	Score	407
Exons	595..633, 1390..1515, 1887..2000		
GI Descrip.	2623295 2.0e-35 (AC002409) hypothetical protein [Arabidopsis thaliana] >gi_4895229_gb_AAD32815.1_AC007660_16 (AC007660) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121432	Strand	+
Start	285	End	2815
Name	OJ000330_31.0424.C34.o1.np	Method	AAT/NAP
Start	1383	End	1974
GI	7487233	Score	208
Exons	1383..1515, 1887..1974		
GI Descrip.	hypothetical protein T20B5.1 - Arabidopsis thaliana gi|2623295|gb|AAB86441.1| (AC002409) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o3.tm	Method	TBLASTX:Maize
Start	1384	End	1525
GI	none	Score	227
Exons	1384..1521, 1390..1524, 1391..1525, 1391..1525		

Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o4.ts	Method	TBLASTX:Soybean
Start	1390	End	1974
GI	5605704	Score	189
Exons	1390..1530, 1391..1531, 1900..1974		
GI Descrip.	2623295 4.0e-50 (AC002409) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o2.np	Method	AAT/NAP
Start	3779	End	6640
GI	7459609	Score	1022
Exons	3779..3831, 5096..5163, 5244..5338, 5572..5734, 5811..6100, 6196..6400, 6483..6640		
GI Descrip.	hypothetical protein T18E12.5 - Arabidopsis thaliana gi|4335769|gb|AAD17446.1| (AC006284) axi 1-like protein [Arabidopsis thaliana]		

Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o2.gs	Method	GENSCAN
Start	4012	End	6746
GI	none	Score	.84
Exons	4012..4198, 5096..5163, 5250..5338, 5572..5698, 5811..6100, 6196..6400, 6483..6746		

Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o4.tm	Method	TBLASTX:Maize
Start	4054	End	5656
GI	none	Score	77

Exons	4054..4104, 4150..4194, 5096..5161, 5097..5159, 5097..5189, 5098..5187, 5232..5333, 5249..5338, 5250..5333, 5251..5346, 5547..5633, 5556..5654, 5570..5656, 5594..5656		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o3.ts	Method	TBLASTX:Soybean
Start	5098	End	5338
GI	none	Score	121
Exons	5098..5187, 5099..5161, 5249..5338, 5250..5333		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o2.tc	Method	TBLASTX:Cress
Start	5100	End	5329
GI	none	Score	104
Exons	5100..5186, 5101..5187, 5249..5329, 5250..5327		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o1.ts	Method	TBLASTX:Soybean
Start	5576	End	6104
GI	none	Score	142
Exons	5576..5725, 5594..5740, 5689..5727, 5807..6064, 5808..6104, 5832..6089		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o2.tm	Method	TBLASTX:Maize
Start	5714	End	5990
GI	none	Score	43
Exons	5714..5740, 5798..5980, 5800..5979, 5808..5990, 5813..5983		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o1.tc	Method	TBLASTX:Cress
Start	5808	End	6644
GI	none	Score	170
Exons	5808..5993, 5834..5962, 6000..6110, 6248..6361, 6498..6644, 6548..6643		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+
Start	4012	End	6746
Name	OJ000330_31.0424.C34.o1.tm	Method	TBLASTX:Maize
Start	5993	End	6645
GI	none	Score	144
Exons	5993..6103, 5994..6101, 6003..6104, 6193..6321, 6194..6409, 6203..6394, 6486..6644, 6487..6645, 6521..6640		
Seq. No.	58071	Seq. ID	OJ000330_31.0424.C34
Gene No.	121433	Strand	+

Start	4012	End	6746
Name	OJ000330_31.0424.C34.o2.ts	Method	TBLASTX:Soybean
Start	6245	End	6644
GI	none	Score	155
Exons	6245..6409, 6489..6644, 6542..6643		

Seq. No.	58072	Seq. ID	OJ000330_31.0424.C38
Gene No.	121434	Strand	+
Start	1	End	1040
Name	OJ000330_31.0424.C38.o1.gp	Method	AAT/GAP
Start	1	End	161
GI	3090609	Score	301
Exons	1..161		
GI Descrip.	6016715/gb|AAF01541.1|AC009325_11 5.0e-29 (AC009325) unknown protein [Arabidopsis thaliana]		

Seq. No.	58072	Seq. ID	OJ000330_31.0424.C38
Gene No.	121434	Strand	+
Start	1	End	1040
Name	OJ000330_31.0424.C38.o1.np	Method	AAT/NAP
Start	1	End	1040
GI	6016715	Score	317
Exons	1..404, 438..630, 667..1040		
GI Descrip.	(AC009325) unknown protein [Arabidopsis thaliana]		

Seq. No.	58072	Seq. ID	OJ000330_31.0424.C38
Gene No.	121434	Strand	+
Start	1	End	1040
Name	OJ000330_31.0424.C38.o1.gs	Method	GENSCAN
Start	130	End	1040
GI	none	Score	.54
Exons	130..640, 754..1040		

Seq. No.	58072	Seq. ID	OJ000330_31.0424.C38
Gene No.	121434	Strand	+
Start	1	End	1040
Name	OJ000330_31.0424.C38.o2.gp	Method	AAT/GAP
Start	570	End	1023
GI	LIB3475-007-P1-K1-F7	Score	908
Exons	570..1023		
GI Descrip.	'132577/sp|P22244|RIP1_HORVU 1.0e-11 PROTEIN SYNTHESIS INHIBITOR I (RIBOSOME-INACTIVATING PROTEIN I) (RRNA N-GLYCOSIDASE) >gi_100556_pir__B38664 30K ribosome inactivating protein - barley >gi_167032 (M62905) ribosome-inactivating protein [Hordeum vulgare]'		

Seq. No.	58072	Seq. ID	OJ000330_31.0424.C38
Gene No.	121435	Strand	+
Start	1011	End	1269
Name	OJ000330_31.0424.C38.o1.tm	Method	TBLASTX:Maize
Start	334	End	941
GI	none	Score	331
Exons	334..726, 334..516, 517..567, 566..730, 567..725, 665..730, 755..787, 781..822, 781..822, 783..833, 831..941, 873..941		

Seq. No.	58072	Seq. ID	OJ000330_31.0424.C38
Gene No.	121435	Strand	+

Start	1011	End	1269
Name	OJ000330_31.0424.C38.o1.tc	Method	TBLASTX:Cress
Start	867	End	1034
GI	none	Score	168
Exons	867..995, 870..995, 990..1034		

Seq. No.	58072	Seq. ID	OJ000330_31.0424.C38
Gene No.	121435	Strand	+
Start	1011	End	1269
Name	OJ000330_31.0424.C38.o3.gp	Method	AAT/GAP
Start	1011	End	1269
GI	none	Score	472
Exons	1011..1269		

Seq. No.	58073	Seq. ID	OJ000330_31.0424.C39
Gene No.	121436	Strand	+
Start	375	End	491
Name	OJ000330_31.0424.C39.o1.gs	Method	GENSCAN
Start	375	End	491
GI	none	Score	.97
Exons	375..491		

Seq. No.	58074	Seq. ID	OJ000330_31.0424.C41
Gene No.	121437	Strand	+
Start	636	End	2030
Name	OJ000330_31.0424.C41.o1.gs	Method	GENSCAN
Start	636	End	1848
GI	none	Score	.57
Exons	636..747, 1802..1848		

Seq. No.	58074	Seq. ID	OJ000330_31.0424.C41
Gene No.	121437	Strand	+
Start	636	End	2030
Name	OJ000330_31.0424.C41.o1.np	Method	AAT/NAP
Start	1016	End	2030
GI	7340860	Score	87
Exons	1016..1182, 1456..1551, 1998..2030		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58075	Seq. ID	OJ000330_31.0424.C44
Gene No.	121438	Strand	+
Start	1210	End	1821
Name	OJ000330_31.0424.C44.o1.gp	Method	AAT/GAP
Start	1210	End	1710
GI	59267_1.R1084	Score	711
Exons	1210..1373, 1482..1710		
GI Descrip.	'1946372 1.0e-10 (U93215) yeast hypothetical protein YDB1_SCHPO isolog [Arabidopsis thaliana]'		

Seq. No.	58075	Seq. ID	OJ000330_31.0424.C44
Gene No.	121438	Strand	+
Start	1210	End	1821
Name	OJ000330_31.0424.C44.o1.np	Method	AAT/NAP
Start	1590	End	1821
GI	1946372	Score	116
Exons	1590..1710, 1741..1821		

GI Descrip.	(U93215) putative integral membrane protein [Arabidopsis thaliana]		
Seq. No.	58075	Seq. ID	OJ000330_31.0424.C44
Gene No.	121439	Strand	-
Start	1205	End	1717
Name	OJ000330_31.0424.C44.o1.gs	Method	GENSCAN
Start	1205	End	1663
GI	none	Score	.61
Exons	1205..1663		

Seq. No.	58075	Seq. ID	OJ000330_31.0424.C44
Gene No.	121439	Strand	-
Start	1205	End	1717
Name	OJ000330_31.0424.C44.o1.tm	Method	TBLASTX:Maize
Start	1286	End	1717
GI	none	Score	40
Exons	1286..1315, 1297..1314, 1303..1350, 1304..1351, 1431..1484, 1467..1529, 1574..1717, 1575..1709, 1601..1714		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121440	Strand	+
Start	202	End	2534
Name	OJ000330_31.0424.C45.o1.gp	Method	AAT/GAP
Start	202	End	278
GI	59267_1.R1084	Score	115
Exons	202..278		
GI Descrip.	'1946372 1.0e-10 (U93215) yeast hypothetical protein YDB1_SCHPO isolog [Arabidopsis thaliana]'		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121440	Strand	+
Start	202	End	2534
Name	OJ000330_31.0424.C45.o1.gs	Method	GENSCAN
Start	202	End	2534
GI	none	Score	.82
Exons	202..386, 630..697, 1210..1378, 1568..1732, 1856..1945, 2514..2534		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121440	Strand	+
Start	202	End	2534
Name	OJ000330_31.0424.C45.o1.np	Method	AAT/NAP
Start	630	End	1981
GI	7523696	Score	852
Exons	630..697, 830..962, 1217..1378, 1460..1732, 1856..1981		
GI Descrip.	(AC011001) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121440	Strand	+
Start	202	End	2534
Name	OJ000330_31.0424.C45.o2.gp	Method	AAT/GAP
Start	817	End	1934
GI	17608_1.R1084	Score	1180
Exons	817..962, 1217..1378, 1460..1732, 1856..1934		
GI Descrip.	'2623295 2.0e-35 (AC002409) hypothetical protein [Arabidopsis thaliana] >gi_4895229_gb_AAD32815.1_AC007660_16 (AC007660)		

hypothetical protein [Arabidopsis thaliana]'

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121441	Strand	+
Start	4565	End	7590
Name	OJ000330_31.0424.C45.o3.gs	Method	GENSCAN
Start	4565	End	7590
GI	none	Score	.56
Exons	4565..4794, 6499..6503, 6952..7344, 7493..7590		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121442	Strand	-
Start	3020	End	3896
Name	OJ000330_31.0424.C45.o2.ts	Method	TBLASTX:Soybean
Start	197	End	665
GI	none	Score	157
Exons	197..376, 201..314, 207..392, 624..665		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121442	Strand	-
Start	3020	End	3896
Name	OJ000330_31.0424.C45.o1.tm	Method	TBLASTX:Maize
Start	200	End	2127
GI	none	Score	207
Exons	200..382, 201..314, 201..413, 203..382, 624..695, 626..715, 828..965, 830..961, 1173..1373, 1205..1396, 1216..1365, 1242..1376, 1459..1731, 1460..1732, 1855..1989, 1858..1992, 1859..1993, 2011..2043, 2015..2041, 2091..2123, 2092..2127		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121442	Strand	-
Start	3020	End	3896
Name	OJ000330_31.0424.C45.o1.tw	Method	TBLASTX:Wheat
Start	1171	End	1696
GI	none	Score	305
Exons	1171..1359, 1175..1396, 1175..1432, 1447..1683, 1458..1682, 1459..1695, 1460..1696		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121442	Strand	-
Start	3020	End	3896
Name	OJ000330_31.0424.C45.o1.ts	Method	TBLASTX:Soybean
Start	1216	End	1732
GI	none	Score	230
Exons	1216..1356, 1217..1396, 1462..1731, 1463..1732		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121442	Strand	-
Start	3020	End	3896
Name	OJ000330_31.0424.C45.o1.tc	Method	TBLASTX:Cress
Start	1537	End	1715
GI	none	Score	220
Exons	1537..1680, 1538..1702, 1538..1681, 1545..1715		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121442	Strand	-
Start	3020	End	3896

Name	OJ000330_31.0424.C45.o2.gs	Method	GENSCAN
Start	3020	End	3832
GI	none	Score	1
Exons	3020..3832		

Seq. No.	58076	Seq. ID	OJ000330_31.0424.C45
Gene No.	121442	Strand	-
Start	3020	End	3896
Name	OJ000330_31.0424.C45.o3.gp	Method	AAT/GAP
Start	3555	End	3896
GI	2428761	Score	639
Exons	3555..3896		
GI Descrip.	132577/sp|P22244|RIP1_HORVU 1.0e-11 PROTEIN SYNTHESIS INHIBITOR I (RIBOSOME-INACTIVATING PROTEIN I) (RRNA N-GLYCOSIDASE) >gi_100556_pir__B38664 30K ribosome inactivating protein - barley >gi_167032 (M62905) ribosome-inactivating protein [Hordeum vulgare]		

Seq. No.	58077	Seq. ID	OJ000330_31.0424.C46
Gene No.	121443	Strand	+
Start	810	End	3752
Name	OJ000330_31.0424.C46.o1.gs	Method	GENSCAN
Start	810	End	2184
GI	none	Score	.66
Exons	810..890, 1150..1232, 1615..1691, 1988..2184		

Seq. No.	58077	Seq. ID	OJ000330_31.0424.C46
Gene No.	121443	Strand	+
Start	810	End	3752
Name	OJ000330_31.0424.C46.o1.np	Method	AAT/NAP
Start	1255	End	1749
GI	6539585	Score	116
Exons	1255..1355, 1615..1749		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	58077	Seq. ID	OJ000330_31.0424.C46
Gene No.	121443	Strand	+
Start	810	End	3752
Name	OJ000330_31.0424.C46.o2.np	Method	AAT/NAP
Start	1595	End	3752
GI	5852093	Score	83
Exons	1595..1705, 2965..3087, 3604..3752		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	58078	Seq. ID	OJ000330_31.0424.C47
Gene No.	121444	Strand	+
Start	1	End	1621
Name	OJ000330_31.0424.C47.o1.np	Method	AAT/NAP
Start	1	End	1621
GI	7489012	Score	99
Exons	1..26, 1108..1376, 1431..1621		
GI Descrip.	Hcr9-0 protein - tomato gi|2792190|emb|CAA05279.1| (AJ002237) Hcr9-0 [Lycopersicon esculentum]		

Seq. No.	58078	Seq. ID	OJ000330_31.0424.C47
Gene No.	121444	Strand	+
Start	1	End	1621

Name	OJ000330_31.0424.C47.o1.gs	Method	GENSCAN
Start	660	End	1564
GI	none	Score	.81
Exons	660..766, 961..1087, 1322..1564		

Seq. No.	58079	Seq. ID	OJ000330_31.0424.C48
Gene No.	121445	Strand	-
Start	40	End	2673
Name	OJ000330_31.0424.C48.o1.ts	Method	TBLASTX:Soybean
Start	32	End	1077
GI	none	Score	124
Exons	32..127, 40..138, 41..139, 225..383, 269..382, 539..622, 692..862, 693..860, 985..1074, 987..1076, 1024..1077		

Seq. No.	58079	Seq. ID	OJ000330_31.0424.C48
Gene No.	121445	Strand	-
Start	40	End	2673
Name	OJ000330_31.0424.C48.o1.np	Method	AAT/NAP
Start	40	End	859
GI	7301102	Score	119
Exons	40..139, 267..405, 673..859		
GI Descrip.	(AE003746) CG13605 gene product [Drosophila melanogaster]		

Seq. No.	58079	Seq. ID	OJ000330_31.0424.C48
Gene No.	121445	Strand	-
Start	40	End	2673
Name	OJ000330_31.0424.C48.o1.tm	Method	TBLASTX:Maize
Start	40	End	2671
GI	none	Score	137
Exons	40..138, 41..139, 225..374, 269..376, 269..376, 327..377, 536..619, 692..862, 693..860, 695..865, 987..1076, 987..1076, 1024..1077, 1436..1540, 1441..1611, 1441..1614, 1592..1642, 2305..2382, 2306..2389, 2503..2532, 2577..2606, 2578..2628, 2621..2668, 2621..2671		

Seq. No.	58079	Seq. ID	OJ000330_31.0424.C48
Gene No.	121445	Strand	-
Start	40	End	2673
Name	OJ000330_31.0424.C48.o2.np	Method	AAT/NAP
Start	203	End	2673
GI	7340670	Score	684
Exons	203..357, 539..646, 695..859, 1042..1118, 1440..1608, 2305..2381, 2579..2673		
GI Descrip.	(AL162508) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58079	Seq. ID	OJ000330_31.0424.C48
Gene No.	121445	Strand	-
Start	40	End	2673
Name	OJ000330_31.0424.C48.o1.gs	Method	GENSCAN
Start	270	End	2381
GI	none	Score	.8
Exons	270..373, 542..619, 695..859, 987..1075, 1440..1608, 2305..2381		

Seq. No.	58079	Seq. ID	OJ000330_31.0424.C48
Gene No.	121445	Strand	-
Start	40	End	2673
Name	OJ000330_31.0424.C48.o2.ts	Method	TBLASTX:Soybean

Start	1436	End	2367
GI	none	Score	83
Exons	1436..1540, 1436..1609, 1441..1617, 1441..1614, 2305..2367, 2306..2365		

Seq. No.	58080	Seq. ID	OJ000330_31.0424.C50
Gene No.	121446	Strand	+
Start	1	End	1345
Name	OJ000330_31.0424.C50.o1.np	Method	AAT/NAP
Start	1	End	1345
GI	4895230	Score	437
Exons	1..243, 1204..1345		
GI Descrip.	(AC007660) unknown protein [Arabidopsis thaliana]		

Seq. No.	58080	Seq. ID	OJ000330_31.0424.C50
Gene No.	121446	Strand	+
Start	1	End	1345
Name	OJ000330_31.0424.C50.o1.ts	Method	TBLASTX:Soybean
Start	58	End	1344
GI	none	Score	224
Exons	58..240, 60..86, 129..236, 1203..1343, 1204..1344, 1234..1344		

Seq. No.	58080	Seq. ID	OJ000330_31.0424.C50
Gene No.	121446	Strand	+
Start	1	End	1345
Name	OJ000330_31.0424.C50.o1.tm	Method	TBLASTX:Maize
Start	88	End	1345
GI	none	Score	251
Exons	88..243, 90..257, 1164..1343, 1204..1344, 1229..1345		

Seq. No.	58080	Seq. ID	OJ000330_31.0424.C50
Gene No.	121446	Strand	+
Start	1	End	1345
Name	OJ000330_31.0424.C50.o1.gs	Method	GENSCAN
Start	97	End	1318
GI	none	Score	.86
Exons	97..243, 1204..1318		

Seq. No.	58080	Seq. ID	OJ000330_31.0424.C50
Gene No.	121446	Strand	+
Start	1	End	1345
Name	OJ000330_31.0424.C50.o1.gp	Method	AAT/GAP
Start	156	End	1345
GI	LIB3434-014-P1-K1-C1	Score	416
Exons	156..243, 1204..1345		
GI Descrip.	'4895230/gb|AAD32816.1|AC007660_17 9.0e-43 (AC007660) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58081	Seq. ID	OJ000330_31.0424.C51
Gene No.	121447	Strand	-
Start	1	End	1122
Name	OJ000330_31.0424.C51.o1.np	Method	AAT/NAP
Start	1	End	1122
GI	6682625	Score	448
Exons	1..1122		
GI Descrip.	(AC016163) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	58081	Seq. ID	OJ000330_31.0424.C51
Gene No.	121447	Strand	-
Start	1	End	1122
Name	OJ000330_31.0424.C51.o1.tc	Method	TBLASTX:Cress
Start	41	End	1122
GI	none	Score	71
Exons	41..196, 41..193, 50..196, 56..196, 59..196, 299..403, 422..607, 431..715, 431..664, 443..721, 443..703, 491..694, 512..694, 575..796, 693..863, 716..862, 716..826, 719..931, 722..913, 722..811, 722..826, 722..901, 728..859, 728..826, 729..821, 731..913, 731..859, 731..838, 732..905, 905..985, 914..985, 1087..1122		

Seq. No.	58081	Seq. ID	OJ000330_31.0424.C51
Gene No.	121447	Strand	-
Start	1	End	1122
Name	OJ000330_31.0424.C51.o1.ts	Method	TBLASTX:Soybean
Start	41	End	985
GI	none	Score	114
Exons	41..253, 41..187, 68..196, 71..169, 350..391, 431..709, 443..562, 449..694, 449..694, 584..715, 683..778, 695..778, 710..769, 722..850, 722..829, 722..820, 731..985, 731..865, 851..961, 866..901		

Seq. No.	58081	Seq. ID	OJ000330_31.0424.C51
Gene No.	121447	Strand	-
Start	1	End	1122
Name	OJ000330_31.0424.C51.o1.gs	Method	GENSCAN
Start	58	End	895
GI	none	Score	.6
Exons	58..895		

Seq. No.	58081	Seq. ID	OJ000330_31.0424.C51
Gene No.	121447	Strand	-
Start	1	End	1122
Name	OJ000330_31.0424.C51.o1.tm	Method	TBLASTX:Maize
Start	59	End	904
GI	none	Score	393
Exons	59..169, 348..602, 353..901, 354..902, 719..904		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o1.gp	Method	AAT/GAP
Start	863	End	2011
GI	3761620	Score	846
Exons	863..979, 1093..1205, 1760..2011		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o1.gs	Method	GENSCAN
Start	1093	End	1205
GI	none	Score	.97
Exons	1093..1205		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o2.gs	Method	GENSCAN
Start	1784	End	2539
GI	none	Score	.83
Exons	1784..2539		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o1.np	Method	AAT/NAP
Start	1847	End	3242
GI	2190548	Score	402
Exons	1847..2192, 3208..3242		
GI Descrip.	(AC001229) EST gb|ATTS1121 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o1.tm	Method	TBLASTX:Maize
Start	1869	End	2104
GI	none	Score	92
Exons	1869..1976, 1870..1959, 1873..2103, 1874..2104		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o1.tc	Method	TBLASTX:Cress
Start	1873	End	2161
GI	none	Score	357
Exons	1873..2112, 1874..2161		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o1.ts	Method	TBLASTX:Soybean
Start	1873	End	2179
GI	none	Score	345
Exons	1873..2109, 1874..2179		

Seq. No.	58082	Seq. ID	OJ000330_31.0424.C54
Gene No.	121448	Strand	+
Start	863	End	3242
Name	OJ000330_31.0424.C54.o2.gp	Method	AAT/GAP
Start	2332	End	2881
GI	3761621	Score	779
Exons	2332..2557, 2663..2881		

Seq. No.	58083	Seq. ID	OJ000310_39.0424.C2
Gene No.	121449	Strand	+
Start	177	End	214
Name	OJ000310_39.0424.C2.o1.gs	Method	GENSCAN
Start	177	End	214
GI	none	Score	.82
Exons	177..214		

Seq. No.	58084	Seq. ID	OJ000310_39.0424.C6
Gene No.	121450	Strand	+
Start	236	End	1961
Name	OJ000310_39.0424.C6.o1.gs	Method	GENSCAN
Start	236	End	1961
GI	none	Score	.65
Exons	236..442, 842..876, 1447..1672, 1791..1961		

Seq. No.	58085	Seq. ID	OJ000310_39.0424.C8
Gene No.	121451	Strand	-
Start	295	End	609
Name	OJ000310_39.0424.C8.o1.gs	Method	GENSCAN
Start	295	End	609
GI	none	Score	.6
Exons	295..609		

Seq. No.	58086	Seq. ID	OJ000310_39.0424.C10
Gene No.	121452	Strand	+
Start	489	End	554
Name	OJ000310_39.0424.C10.o1.gs	Method	GENSCAN
Start	489	End	554
GI	none	Score	.64
Exons	489..554		

Seq. No.	58087	Seq. ID	OJ000310_39.0424.C11
Gene No.	121453	Strand	+
Start	238	End	623
Name	OJ000310_39.0424.C11.o1.gs	Method	GENSCAN
Start	238	End	623
GI	none	Score	.57
Exons	238..303, 465..623		

Seq. No.	58088	Seq. ID	OJ000310_39.0424.C12
Gene No.	121454	Strand	+
Start	454	End	669
Name	OJ000310_39.0424.C12.o1.gs	Method	GENSCAN
Start	454	End	669
GI	none	Score	.49
Exons	454..669		

Seq. No.	58089	Seq. ID	OJ000310_39.0424.C13
Gene No.	121455	Strand	+
Start	90	End	548
Name	OJ000310_39.0424.C13.o1.gs	Method	GENSCAN
Start	90	End	548
GI	none	Score	.61
Exons	90..548		

Seq. No.	58089	Seq. ID	OJ000310_39.0424.C13
Gene No.	121456	Strand	+
Start	858	End	1116
Name	OJ000310_39.0424.C13.o2.gs	Method	GENSCAN
Start	858	End	1116
GI	none	Score	.68
Exons	858..1116		

Seq. No.	58090	Seq. ID	OJ000310_39.0424.C14
Gene No.	121457	Strand	-
Start	206	End	287
Name	OJ000310_39.0424.C14.o1.gs	Method	GENSCAN
Start	206	End	287
GI	none	Score	.44
Exons	206..287		

Seq. No.	58091	Seq. ID	OJ000310_39.0424.C18
Gene No.	121458	Strand	-
Start	2214	End	2526
Name	OJ000310_39.0424.C18.o1.gs	Method	GENSCAN
Start	2214	End	2432
GI	none	Score	.7
Exons	2214..2279, 2313..2432		

Seq. No.	58091	Seq. ID	OJ000310_39.0424.C18
Gene No.	121458	Strand	-
Start	2214	End	2526
Name	OJ000310_39.0424.C18.o1.np	Method	AAT/NAP
Start	2235	End	2526
GI	4218008	Score	111
Exons	2235..2526		
GI Descrip.	(AC006135) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58092	Seq. ID	OJ000310_39.0424.C20
Gene No.	121459	Strand	-
Start	822	End	1120
Name	OJ000310_39.0424.C20.o1.gs	Method	GENSCAN
Start	822	End	1120
GI	none	Score	.66
Exons	822..961, 1060..1120		

Seq. No.	58093	Seq. ID	OJ000310_39.0424.C23
Gene No.	121460	Strand	-
Start	308	End	1259
Name	OJ000310_39.0424.C23.o1.gs	Method	GENSCAN
Start	308	End	1259
GI	none	Score	.53
Exons	308..501, 983..1259		

Seq. No.	58094	Seq. ID	OJ000310_39.0424.C31
Gene No.	121461	Strand	+
Start	887	End	1554
Name	OJ000310_39.0424.C31.o1.gs	Method	GENSCAN
Start	887	End	1554
GI	none	Score	.43
Exons	887..1010, 1334..1554		

Seq. No.	58095	Seq. ID	OJ000310_39.0424.C33
Gene No.	121462	Strand	-
Start	18	End	448
Name	OJ000310_39.0424.C33.o1.gs	Method	GENSCAN
Start	18	End	448
GI	none	Score	.52
Exons	18..448		

Seq. No.	58096	Seq. ID	OJ000310_39.0424.C34
Gene No.	121463	Strand	+
Start	125	End	241
Name	OJ000310_39.0424.C34.o1.gs	Method	GENSCAN
Start	125	End	241
GI	none	Score	.79
Exons	125..241		

Seq. No.	58097	Seq. ID	OJ000310_39.0424.C35
Gene No.	121464	Strand	-
Start	390	End	645
Name	OJ000310_39.0424.C35.o1.gs	Method	GENSCAN
Start	390	End	645
GI	none	Score	.62
Exons	390..564, 593..645		

Seq. No.	58098	Seq. ID	OJ000310_39.0424.C38
Gene No.	121465	Strand	-
Start	838	End	986
Name	OJ000310_39.0424.C38.o1.gp	Method	AAT/GAP
Start	838	End	986
GI	uC-osflcyp104c12a1	Score	198
Exons	838..986		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 3.0e-29 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	58098	Seq. ID	OJ000310_39.0424.C38
Gene No.	121466	Strand	-
Start	1224	End	1468
Name	OJ000310_39.0424.C38.o1.np	Method	AAT/NAP
Start	1224	End	1468
GI	7242910	Score	96
Exons	1224..1311, 1380..1468		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	58099	Seq. ID	OJ000310_39.0424.C39
Gene No.	121467	Strand	-
Start	1160	End	1668
Name	OJ000310_39.0424.C39.o1.tm	Method	TBLASTX:Maize
Start	1154	End	1655
GI	none	Score	159
Exons	1154..1267, 1157..1282, 1341..1439, 1342..1437, 1367..1438, 1602..1655, 1603..1653		

Seq. No.	58099	Seq. ID	OJ000310_39.0424.C39
Gene No.	121467	Strand	-
Start	1160	End	1668
Name	OJ000310_39.0424.C39.o1.gs	Method	GENSCAN
Start	1160	End	1436
GI	none	Score	.52
Exons	1160..1264, 1344..1436		

Seq. No.	58099	Seq. ID	OJ000310_39.0424.C39
Gene No.	121467	Strand	-
Start	1160	End	1668
Name	OJ000310_39.0424.C39.o1.np	Method	AAT/NAP
Start	1172	End	1668

GI	6642669	Score	252
Exons	1172..1264, 1344..1436, 1605..1668		
GI Descrip.	(AC015450) putative DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	58099	Seq. ID	OJ000310_39.0424.C39
Gene No.	121467	Strand	-
Start	1160	End	1668
Name	OJ000310_39.0424.C39.o1.ts	Method	TBLASTX:Soybean
Start	1178	End	1431
GI	none	Score	86
Exons	1178..1282, 1179..1265, 1341..1430, 1341..1430, 1342..1431		

Seq. No.	58100	Seq. ID	OJ000310_39.0424.C43
Gene No.	121468	Strand	+
Start	1	End	1085
Name	OJ000310_39.0424.C43.o1.np	Method	AAT/NAP
Start	1	End	1085
GI	6815053	Score	686
Exons	1..152, 637..799, 849..1085		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	58101	Seq. ID	OJ000310_39.0424.C46
Gene No.	121469	Strand	-
Start	1	End	784
Name	OJ000310_39.0424.C46.o1.np	Method	AAT/NAP
Start	1	End	784
GI	6572073	Score	205
Exons	1..138, 425..510, 600..654, 732..784		
GI Descrip.	(AL133452) putative protein [Arabidopsis thaliana]		

Seq. No.	58101	Seq. ID	OJ000310_39.0424.C46
Gene No.	121469	Strand	-
Start	1	End	784
Name	OJ000310_39.0424.C46.o1.tm	Method	TBLASTX:Maize
Start	29	End	662
GI	none	Score	155
Exons	29..139, 29..139, 30..140, 31..201, 426..527, 426..527, 463..597, 590..661, 597..662		

Seq. No.	58101	Seq. ID	OJ000310_39.0424.C46
Gene No.	121469	Strand	-
Start	1	End	784
Name	OJ000310_39.0424.C46.o1.gs	Method	GENSCAN
Start	32	End	674
GI	none	Score	.88
Exons	32..138, 425..510, 600..674		

Seq. No.	58102	Seq. ID	OJ000310_39.0424.C47
Gene No.	121470	Strand	-
Start	601	End	829
Name	OJ000310_39.0424.C47.o1.gs	Method	GENSCAN
Start	601	End	829
GI	none	Score	.52
Exons	601..829		

Seq. No.	58103	Seq. ID	OJ000310_39.0424.C49
Gene No.	121471	Strand	+

Start	8	End	1994
Name	OJ000310_39.0424.C49.o1.gp	Method	AAT/GAP
Start	8	End	961
GI	2312823	Score	769
Exons	8..175, 264..326, 410..478, 581..687, 910..961		

Seq. No.	58103	Seq. ID	OJ000310_39.0424.C49
Gene No.	121471	Strand	+
Start	8	End	1994
Name	OJ000310_39.0424.C49.o1.gs	Method	GENSCAN
Start	49	End	726
GI	none	Score	.96
Exons	49..175, 410..478, 581..726		

Seq. No.	58103	Seq. ID	OJ000310_39.0424.C49
Gene No.	121471	Strand	+
Start	8	End	1994
Name	OJ000310_39.0424.C49.o1.np	Method	AAT/NAP
Start	136	End	1994
GI	6911142	Score	103
Exons	136..175, 410..478, 581..688, 1931..1994		
GI Descrip.	(AF200321) putative glycine-rich RNA binding protein 1 [Catharanthus roseus]		

Seq. No.	58103	Seq. ID	OJ000310_39.0424.C49
Gene No.	121472	Strand	-
Start	1921	End	1983
Name	OJ000310_39.0424.C49.o2.gs	Method	GENSCAN
Start	1921	End	1983
GI	none	Score	.74
Exons	1921..1983		

Seq. No.	58104	Seq. ID	OJ000310_39.0424.C50
Gene No.	121473	Strand	-
Start	1	End	878
Name	OJ000310_39.0424.C50.o1.np	Method	AAT/NAP
Start	1	End	878
GI	2499488	Score	585
Exons	1..109, 218..383, 499..602, 696..878		
GI Descrip.	PYROPHOSPHATE--FRUCTOSE 6-PHOSPHATE 1-PHOSPHOTRANSFERASE ALPHA SUBUNIT (PFP) (6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE)) (PYROPHOSPHATE-DEPENDENT 6-PHOSPHOFRUCTOSE-1-KINASE) (PPI-PFK) gi|483547|emb|CAA83682| (Z32849) pyrophosphate-dependent phosphofructokinase alpha subunit [Ricinus communis]		

Seq. No.	58104	Seq. ID	OJ000310_39.0424.C50
Gene No.	121473	Strand	-
Start	1	End	878
Name	OJ000310_39.0424.C50.o2.tw	Method	TBLASTX:Wheat
Start	1	End	110
GI	none	Score	161
Exons	1..105, 2..109, 3..110		

Seq. No.	58104	Seq. ID	OJ000310_39.0424.C50
Gene No.	121473	Strand	-
Start	1	End	878
Name	OJ000310_39.0424.C50.o1.tm	Method	TBLASTX:Maize

Start	2	End	819
GI	none	Score	152
Exons	2..112, 3..110, 17..112, 203..388, 216..383, 216..389, 480..602, 498..602, 499..603, 499..603, 500..607, 691..819, 696..812		

Seq. No.	58104	Seq. ID	OJ000310_39.0424.C50
Gene No.	121473	Strand	-
Start	1	End	878
Name	OJ000310_39.0424.C50.o1.tw	Method	TBLASTX:Wheat
Start	244	End	603
GI	none	Score	146
Exons	244..378, 245..388, 246..380, 456..602, 498..599, 499..603, 502..603		

Seq. No.	58105	Seq. ID	OJ000310_39.0424.C54
Gene No.	121474	Strand	+
Start	78	End	1185
Name	OJ000310_39.0424.C54.o1.gs	Method	GENSCAN
Start	78	End	1051
GI	none	Score	.55
Exons	78..1051		

Seq. No.	58105	Seq. ID	OJ000310_39.0424.C54
Gene No.	121474	Strand	+
Start	78	End	1185
Name	OJ000310_39.0424.C54.o1.np	Method	AAT/NAP
Start	194	End	1185
GI	4836899	Score	652
Exons	194..408, 457..977, 1032..1185		
GI Descrip.	(AC007369) Unknown protein [Arabidopsis thaliana] gi|6319180|gb|AAF07197.1|AF194974_1 (AF194974) ESCAROLA [Arabidopsis thaliana]		

Seq. No.	58105	Seq. ID	OJ000310_39.0424.C54
Gene No.	121474	Strand	+
Start	78	End	1185
Name	OJ000310_39.0424.C54.o1.tc	Method	TBLASTX:Cress
Start	506	End	703
GI	none	Score	191
Exons	506..703		

Seq. No.	58105	Seq. ID	OJ000310_39.0424.C54
Gene No.	121474	Strand	+
Start	78	End	1185
Name	OJ000310_39.0424.C54.o1.tm	Method	TBLASTX:Maize
Start	506	End	753
GI	none	Score	197
Exons	506..724, 506..676, 697..753		

Seq. No.	58105	Seq. ID	OJ000310_39.0424.C54
Gene No.	121474	Strand	+
Start	78	End	1185
Name	OJ000310_39.0424.C54.o1.ts	Method	TBLASTX:Soybean
Start	506	End	700
GI	none	Score	200
Exons	506..700		

Seq. No.	58105	Seq. ID	OJ000310_39.0424.C54
Gene No.	121474	Strand	+
Start	78	End	1185
Name	OJ000310_39.0424.C54.o1.tw	Method	TBLASTX:Wheat
Start	506	End	754
GI	none	Score	196
Exons	506..700, 506..607, 517..693, 686..754		

Seq. No.	58106	Seq. ID	OJ000310_39.0424.C56
Gene No.	121475	Strand	+
Start	599	End	648
Name	OJ000310_39.0424.C56.o1.gs	Method	GENSCAN
Start	599	End	648
GI	none	Score	.82
Exons	599..648		

Seq. No.	58107	Seq. ID	OJ000310_39.0424.C57
Gene No.	121476	Strand	-
Start	1	End	893
Name	OJ000310_39.0424.C57.o1.np	Method	AAT/NAP
Start	1	End	893
GI	1946372	Score	139
Exons	1..32, 498..669, 816..893		
GI Descrip.	(U93215) putative integral membrane protein [Arabidopsis thaliana]		

Seq. No.	58107	Seq. ID	OJ000310_39.0424.C57
Gene No.	121476	Strand	-
Start	1	End	893
Name	OJ000310_39.0424.C57.o1.tm	Method	TBLASTX:Maize
Start	16	End	652
GI	none	Score	164
Exons	16..114, 436..621, 440..628, 440..652		

Seq. No.	58108	Seq. ID	OJ000310_39.0424.C61
Gene No.	121477	Strand	-
Start	437	End	557
Name	OJ000310_39.0424.C61.o1.gs	Method	GENSCAN
Start	437	End	557
GI	none	Score	.57
Exons	437..557		

Seq. No.	58109	Seq. ID	OJ000310_39.0424.C64
Gene No.	121478	Strand	-
Start	592	End	720
Name	OJ000310_39.0424.C64.o1.gs	Method	GENSCAN
Start	592	End	720
GI	none	Score	.73
Exons	592..720		

Seq. No.	58109	Seq. ID	OJ000310_39.0424.C64
Gene No.	121479	Strand	-
Start	707	End	1070
Name	OJ000310_39.0424.C64.o1.tm	Method	TBLASTX:Maize
Start	659	End	1013
GI	none	Score	200
Exons	659..712, 813..1013, 817..1011		

Seq. No.	58109	Seq. ID	OJ000310_39.0424.C64
Gene No.	121479	Strand	-
Start	707	End	1070
Name	OJ000310_39.0424.C64.o1.np	Method	AAT/NAP
Start	707	End	1070
GI	7340723	Score	190
Exons	707..1070		
GI Descrip.	(AL162507) putative protein [Arabidopsis thaliana]		

Seq. No.	58109	Seq. ID	OJ000310_39.0424.C64
Gene No.	121479	Strand	-
Start	707	End	1070
Name	OJ000310_39.0424.C64.o1.ts	Method	TBLASTX:Soybean
Start	828	End	1041
GI	none	Score	165
Exons	828..1031, 829..1041		

Seq. No.	58110	Seq. ID	OJ000310_39.0424.C69
Gene No.	121480	Strand	+
Start	3160	End	3970
Name	OJ000310_39.0424.C69.o1.np	Method	AAT/NAP
Start	3160	End	3970
GI	5921832	Score	226
Exons	3160..3261, 3530..3736, 3770..3970		
GI Descrip.	COPPER TRANSPORTER 1 gi|1082054|emb|CAA90018| (Z49859) copper transporter protein [Arabidopsis thaliana]		

Seq. No.	58110	Seq. ID	OJ000310_39.0424.C69
Gene No.	121481	Strand	-
Start	137	End	3834
Name	OJ000310_39.0424.C69.o1.gs	Method	GENSCAN
Start	137	End	3834
GI	none	Score	.42
Exons	137..669, 978..1095, 3424..3834		

Seq. No.	58111	Seq. ID	OJ000310_39.0424.C70
Gene No.	121482	Strand	-
Start	466	End	547
Name	OJ000310_39.0424.C70.o1.gs	Method	GENSCAN
Start	466	End	547
GI	none	Score	.45
Exons	466..547		

Seq. No.	58112	Seq. ID	OJ000310_39.0424.C74
Gene No.	121483	Strand	-
Start	1	End	886
Name	OJ000310_39.0424.C74.o1.np	Method	AAT/NAP
Start	1	End	886
GI	6017111	Score	177
Exons	1..21, 684..886		
GI Descrip.	(AC009895) unknown protein [Arabidopsis thaliana]		

Seq. No.	58112	Seq. ID	OJ000310_39.0424.C74
Gene No.	121483	Strand	-
Start	1	End	886
Name	OJ000310_39.0424.C74.o1.gs	Method	GENSCAN

Start	680	End	823
GI	none	Score	.74
Exons	680..823		

Seq. No.	58112	Seq. ID	OJ000310_39.0424.C74
Gene No.	121483	Strand	-
Start	1	End	886
Name	OJ000310_39.0424.C74.o1.gp	Method	AAT/GAP
Start	741	End	886
GI	42957_1.R1084	Score	139
Exons	741..823, 863..886		
GI Descrip.	'6017111/gb|AAF01594.1|AC009895_15 3.0e-37 (AC009895) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121484	Strand	-
Start	1	End	624
Name	OJ000310_39.0424.C77.o1.gp	Method	AAT/GAP
Start	1	End	624
GI	26857_1.R1084	Score	996
Exons	1..87, 174..624		
GI Descrip.	'6093512/sp|Q39950|NLTP_HELAN 1.0e-16 NONSPECIFIC LIPID-TRANSFER PROTEIN PRECURSOR (LTP) (NSLTP) (SDI-9) >gi_1050918_emb_CAA63340_ (X92648) lipid transfer protein [Helianthus annuus]'		

Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121484	Strand	-
Start	1	End	624
Name	OJ000310_39.0424.C77.o1.gs	Method	GENSCAN
Start	158	End	526
GI	none	Score	.98
Exons	158..526		

Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121484	Strand	-
Start	1	End	624
Name	OJ000310_39.0424.C77.o1.np	Method	AAT/NAP
Start	167	End	529
GI	6492243	Score	453
Exons	167..529		
GI Descrip.	(AF109195) lipid transfer protein [Hordeum vulgare]		

Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121485	Strand	-
Start	1253	End	1873
Name	OJ000310_39.0424.C77.o1.tw	Method	TBLASTX:Wheat
Start	173	End	443
GI	none	Score	54
Exons	173..211, 173..442, 177..443, 345..443		

Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121485	Strand	-
Start	1253	End	1873
Name	OJ000310_39.0424.C77.o1.tm	Method	TBLASTX:Maize
Start	176	End	524
GI	none	Score	93

Exons	176..262, 177..263, 263..385, 264..386, 353..442, 372..524		
Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121485	Strand	-
Start	1253	End	1873
Name	OJ000310_39.0424.C77.o1.tc	Method	TBLASTX:Cress
Start	177	End	442
GI	none	Score	122
Exons	177..428, 179..442		
Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121485	Strand	-
Start	1253	End	1873
Name	OJ000310_39.0424.C77.o1.ts	Method	TBLASTX:Soybean
Start	179	End	443
GI	none	Score	50
Exons	179..442, 180..245, 276..443		
Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121485	Strand	-
Start	1253	End	1873
Name	OJ000310_39.0424.C77.o2.gs	Method	GENSCAN
Start	1253	End	1847
GI	none	Score	.91
Exons	1253..1475, 1780..1847		
Seq. No.	58113	Seq. ID	OJ000310_39.0424.C77
Gene No.	121485	Strand	-
Start	1253	End	1873
Name	OJ000310_39.0424.C77.o2.np	Method	AAT/NAP
Start	1301	End	1873
GI	7523502	Score	192
Exons	1301..1456, 1780..1873		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	58114	Seq. ID	OJ000310_39.0424.C80
Gene No.	121486	Strand	-
Start	56	End	1412
Name	OJ000310_39.0424.C80.o1.tm	Method	TBLASTX:Maize
Start	1	End	452
GI	none	Score	49
Exons	1..102, 3..452, 136..450		
Seq. No.	58114	Seq. ID	OJ000310_39.0424.C80
Gene No.	121486	Strand	-
Start	56	End	1412
Name	OJ000310_39.0424.C80.o1.ts	Method	TBLASTX:Soybean
Start	48	End	431
GI	none	Score	128
Exons	48..431, 133..393		
Seq. No.	58114	Seq. ID	OJ000310_39.0424.C80
Gene No.	121486	Strand	-
Start	56	End	1412
Name	OJ000310_39.0424.C80.o1.np	Method	AAT/NAP
Start	56	End	1412
GI	4581164	Score	380

Exons	56..640, 1367..1412		
GI Descrip.	(AC006220) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	58114	Seq. ID	OJ000310_39.0424.C80
Gene No.	121486	Strand	-
Start	56	End	1412
Name	OJ000310_39.0424.C80.o1.gs	Method	GENSCAN
Start	132	End	1110
GI	none	Score	.64
Exons	132..575, 649..834, 1024..1110		

Seq. No.	58114	Seq. ID	OJ000310_39.0424.C80
Gene No.	121486	Strand	-
Start	56	End	1412
Name	OJ000310_39.0424.C80.o1.tw	Method	TBLASTX:Wheat
Start	285	End	623
GI	none	Score	51
Exons	285..623, 286..357, 427..576		

Seq. No.	58114	Seq. ID	OJ000310_39.0424.C80
Gene No.	121486	Strand	-
Start	56	End	1412
Name	OJ000310_39.0424.C80.o2.np	Method	AAT/NAP
Start	766	End	1196
GI	5042454	Score	184
Exons	766..819, 1024..1196		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58115	Seq. ID	OJ000310_39.0424.C83
Gene No.	121487	Strand	-
Start	720	End	866
Name	OJ000310_39.0424.C83.o1.gs	Method	GENSCAN
Start	720	End	866
GI	none	Score	.65
Exons	720..866		

Seq. No.	58116	Seq. ID	OJ000310_39.0424.C84
Gene No.	121488	Strand	+
Start	210	End	765
Name	OJ000310_39.0424.C84.o1.gs	Method	GENSCAN
Start	210	End	765
GI	none	Score	.5
Exons	210..361, 573..765		

Seq. No.	58117	Seq. ID	OJ000310_39.0424.C91
Gene No.	121489	Strand	-
Start	896	End	1344
Name	OJ000310_39.0424.C91.o1.gs	Method	GENSCAN
Start	896	End	1344
GI	none	Score	.78
Exons	896..1092, 1208..1344		

Seq. No.	58118	Seq. ID	OJ000310_39.0424.C95
Gene No.	121490	Strand	-
Start	19	End	506
Name	OJ000310_39.0424.C95.o1.gs	Method	GENSCAN

Start	19	End	506
GI	none	Score	.99
Exons	19..506		

Seq. No.	58118	Seq. ID	OJ000310_39.0424.C95
Gene No.	121490	Strand	-
Start	19	End	506
Name	OJ000310_39.0424.C95.o1.tm	Method	TBLASTX:Maize
Start	72	End	329
GI	none	Score	117
Exons	72..233, 74..175, 129..329		

Seq. No.	58119	Seq. ID	OJ000310_39.0424.C97
Gene No.	121491	Strand	+
Start	359	End	475
Name	OJ000310_39.0424.C97.o1.gs	Method	GENSCAN
Start	359	End	475
GI	none	Score	.48
Exons	359..475		

Seq. No.	58120	Seq. ID	OJ000310_39.0424.C102
Gene No.	121492	Strand	+
Start	1	End	871
Name	OJ000310_39.0424.C102.o1.np	Method	AAT/NAP
Start	1	End	314
GI	1346301	Score	448
Exons	1..314		
GI Descrip.	3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE (HMG-COA REDUCTASE) gi|1071805|pir||S46314 hydroxymethylglutaryl CoA reductase - rice gi|455459 (L28995) 3-hydroxy-3-methylglutaryl coenzyme A reductase [Oryza sativa]		

Seq. No.	58120	Seq. ID	OJ000310_39.0424.C102
Gene No.	121492	Strand	+
Start	1	End	871
Name	OJ000310_39.0424.C102.o1.tm	Method	TBLASTX:Maize
Start	1	End	314
GI	none	Score	105
Exons	1..120, 3..314, 5..313		

Seq. No.	58120	Seq. ID	OJ000310_39.0424.C102
Gene No.	121492	Strand	+
Start	1	End	871
Name	OJ000310_39.0424.C102.o1.tc	Method	TBLASTX:Cress
Start	3	End	314
GI	none	Score	355
Exons	3..314, 5..235, 186..311		

Seq. No.	58120	Seq. ID	OJ000310_39.0424.C102
Gene No.	121492	Strand	+
Start	1	End	871
Name	OJ000310_39.0424.C102.o1.ts	Method	TBLASTX:Soybean
Start	3	End	316
GI	none	Score	366
Exons	3..314, 5..313, 40..75, 104..316		

Seq. No.	58120	Seq. ID	OJ000310_39.0424.C102

Gene No.	121492	Strand	+
Start	1	End	871
Name	OJ000310_39.0424.C102.o1.gs	Method	GENSCAN
Start	27	End	871
GI	none	Score	.74
Exons	27..313, 838..871		

Seq. No.	58121	Seq. ID	OJ000310_39.0424.C105
Gene No.	121493	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C105.o1.np	Method	AAT/NAP
Start	1	End	429
GI	5381253	Score	69
Exons	1..429		
GI Descrip.	(AB027752) peroxidase [Nicotiana tabacum]		

Seq. No.	58121	Seq. ID	OJ000310_39.0424.C105
Gene No.	121493	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C105.o1.gs	Method	GENSCAN
Start	96	End	889
GI	none	Score	.8
Exons	96..293, 518..697, 707..813, 883..889		

Seq. No.	58121	Seq. ID	OJ000310_39.0424.C105
Gene No.	121493	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C105.o1.tm	Method	TBLASTX:Maize
Start	506	End	739
GI	none	Score	41
Exons	506..538, 527..739, 563..736		

Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121494	Strand	+
Start	20	End	525
Name	OJ000310_39.0424.C107.o1.gs	Method	GENSCAN
Start	20	End	525
GI	none	Score	.98
Exons	20..24, 133..312, 429..525		

Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121495	Strand	+
Start	3084	End	4135
Name	OJ000310_39.0424.C107.o1.np	Method	AAT/NAP
Start	2468	End	4135
GI	7486939	Score	427
Exons	2468..2594, 3296..4135		
GI Descrip.	hypothetical protein T13E15.11 - Arabidopsis thaliana gi|2344896|gb|AAC31836.1| (AC002388) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121495	Strand	+
Start	3084	End	4135
Name	OJ000310_39.0424.C107.o2.gs	Method	GENSCAN
Start	3084	End	4123
GI	none	Score	.84

Exons	3084..4123		
Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121496	Strand	-
Start	1	End	657
Name	OJ000310_39.0424.C107.o1.gp	Method	AAT/GAP
Start	1	End	657
GI	none	Score	1243
Exons	1..657		
Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121496	Strand	-
Start	1	End	657
Name	OJ000310_39.0424.C107.o1.tm	Method	TBLASTX:Maize
Start	7	End	527
GI	none	Score	38
Exons	7..30, 130..312, 134..313, 427..525, 429..524, 429..527, 430..525		
Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121496	Strand	-
Start	1	End	657
Name	OJ000310_39.0424.C107.o1.tc	Method	TBLASTX:Cress
Start	107	End	524
GI	none	Score	270
Exons	107..169, 134..313, 145..315, 429..515, 430..516, 432..524		
Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121496	Strand	-
Start	1	End	657
Name	OJ000310_39.0424.C107.o1.ts	Method	TBLASTX:Soybean
Start	134	End	572
GI	none	Score	258
Exons	134..313, 145..315, 427..516, 429..572, 430..516		
Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121496	Strand	-
Start	1	End	657
Name	OJ000310_39.0424.C107.o1.tw	Method	TBLASTX:Wheat
Start	247	End	525
GI	none	Score	103
Exons	247..312, 248..313, 369..524, 429..515, 430..525		
Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121497	Strand	
Start	3303	End	4088
Name	OJ000310_39.0424.C107.o2.tm	Method	TBLASTX:Maize
Start	3303	End	4088
GI	none	Score	98
Exons	3303..3581, 3477..3767, 3612..3875, 3629..3775, 3687..3788, 3699..4088, 3792..3872, 3800..4009, 3864..4019		
Seq. No.	58122	Seq. ID	OJ000310_39.0424.C107
Gene No.	121497	Strand	
Start	3303	End	4088
Name	OJ000310_39.0424.C107.o2.tc	Method	TBLASTX:Cress
Start	3306	End	4055

GI	none	Score	124
Exons	3306..3707, 3330..3767, 3606..3773, 3612..3875, 3684..4055, 3701..3895, 3702..3866, 3742..3783, 3792..3962, 3822..3944, 3882..4055, 3954..4028		

Seq. No.	58123	Seq. ID	OJ000310_39.0424.C108
Gene No.	121498	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C108.o1.np	Method	AAT/NAP
Start	1	End	821
GI	7489471	Score	766
Exons	1..29, 220..576, 683..821		
GI Descrip.	expansin 2 - rice gi|1041710|gb|AAB38074.1| (U30477) expansin Os-EXP2 [Oryza sativa]		

Seq. No.	58123	Seq. ID	OJ000310_39.0424.C108
Gene No.	121498	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C108.o1.tm	Method	TBLASTX:Maize
Start	231	End	750
GI	none	Score	423
Exons	231..578, 263..331, 263..577, 263..475, 264..476, 443..490, 510..590, 529..606, 681..749, 682..750		

Seq. No.	58123	Seq. ID	OJ000310_39.0424.C108
Gene No.	121498	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C108.o1.tc	Method	TBLASTX:Cress
Start	263	End	744
GI	none	Score	263
Exons	263..577, 264..578, 681..743, 682..744		

Seq. No.	58123	Seq. ID	OJ000310_39.0424.C108
Gene No.	121498	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C108.o1.ts	Method	TBLASTX:Soybean
Start	263	End	744
GI	none	Score	331
Exons	263..577, 264..578, 510..590, 681..743, 682..744		

Seq. No.	58123	Seq. ID	OJ000310_39.0424.C108
Gene No.	121498	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C108.o1.gp	Method	AAT/GAP
Start	264	End	889
GI	993_1.R1084	Score	997
Exons	264..576, 683..889		
GI Descrip.	'1041710 1.0e-121 (U30477) expansin Os-EXP2 [Oryza sativa]'		

Seq. No.	58123	Seq. ID	OJ000310_39.0424.C108
Gene No.	121498	Strand	-
Start	1	End	889
Name	OJ000310_39.0424.C108.o1.gs	Method	GENSCAN
Start	264	End	821
GI	none	Score	.97
Exons	264..576, 683..821		

Seq. No.	58124	Seq. ID	OJ000310_39.0424.C110
Gene No.	121499	Strand	+
Start	2655	End	3054
Name	OJ000310_39.0424.C110.o1.gs	Method	GENSCAN
Start	2655	End	3054
GI	none	Score	.59
Exons	2655..2798, 2818..3054		

Seq. No.	58124	Seq. ID	OJ000310_39.0424.C110
Gene No.	121500	Strand	+
Start	3382	End	3479
Name	OJ000310_39.0424.C110.o1.gp	Method	AAT/GAP
Start	3382	End	3479
GI	95327_1.R1084	Score	157
Exons	3382..3479		
GI Descrip.	'1707032 2.0e-15 (U80445) coded for by C. elegans cDNA yk13g5.3; coded for by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA yk65h8'		

Seq. No.	58125	Seq. ID	OJ000310_39.0424.C111
Gene No.	121501	Strand	-
Start	1769	End	2125
Name	OJ000310_39.0424.C111.o1.gs	Method	GENSCAN
Start	1769	End	2125
GI	none	Score	.53
Exons	1769..2125		

Seq. No.	58126	Seq. ID	OJ000310_39.0424.C112
Gene No.	121502	Strand	+
Start	1	End	4218
Name	OJ000310_39.0424.C112.o1.np	Method	AAT/NAP
Start	1	End	4218
GI	6751696	Score	168
Exons	1..29, 675..758, 815..1035, 1062..1306, 1611..1759, 4145..4218		
GI Descrip.	(AC018908) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58126	Seq. ID	OJ000310_39.0424.C112
Gene No.	121502	Strand	+
Start	1	End	4218
Name	OJ000310_39.0424.C112.o3.np	Method	AAT/NAP
Start	2750	End	4218
GI	6721561	Score	136
Exons	2750..2856, 4169..4218		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58126	Seq. ID	OJ000310_39.0424.C112
Gene No.	121503	Strand	-
Start	2628	End	4218
Name	OJ000310_39.0424.C112.o2.np	Method	AAT/NAP
Start	2628	End	4218
GI	4680183	Score	121

Exons	2628..2717, 4199..4218		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	58127	Seq. ID	OJ000310_39.0424.C113
Gene No.	121504	Strand	-
Start	1	End	1045
Name	OJ000310_39.0424.C113.o1.np	Method	AAT/NAP
Start	1	End	873
GI	5545339	Score	421
Exons	1..713, 747..873		
GI Descrip.	(AB030083) lectin-like protein kinase [Populus nigra]		
Seq. No.	58127	Seq. ID	OJ000310_39.0424.C113
Gene No.	121504	Strand	-
Start	1	End	1045
Name	OJ000310_39.0424.C113.o1.gs	Method	GENSCAN
Start	44	End	1045
GI	none	Score	.65
Exons	44..1045		
Seq. No.	58128	Seq. ID	OJ000310_39.0424.C114
Gene No.	121505	Strand	-
Start	33	End	563
Name	OJ000310_39.0424.C114.o1.gs	Method	GENSCAN
Start	33	End	563
GI	none	Score	.44
Exons	33..181, 523..563		
Seq. No.	58129	Seq. ID	OJ000310_39.0424.C121
Gene No.	121506	Strand	-
Start	137	End	1502
Name	OJ000310_39.0424.C121.o1.gs	Method	GENSCAN
Start	137	End	1502
GI	none	Score	.82
Exons	137..297, 445..493, 1169..1502		
Seq. No.	58129	Seq. ID	OJ000310_39.0424.C121
Gene No.	121506	Strand	-
Start	137	End	1502
Name	OJ000310_39.0424.C121.o1.np	Method	AAT/NAP
Start	1155	End	1499
GI	4895197	Score	242
Exons	1155..1499		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58129	Seq. ID	OJ000310_39.0424.C121
Gene No.	121507	Strand	-
Start	2473	End	2579
Name	OJ000310_39.0424.C121.o1.tc	Method	TBLASTX:Cress
Start	1170	End	1436
GI	none	Score	128
Exons	1170..1301, 1171..1296, 1317..1436, 1324..1407		
Seq. No.	58129	Seq. ID	OJ000310_39.0424.C121
Gene No.	121507	Strand	-
Start	2473	End	2579
Name	OJ000310_39.0424.C121.o1.tm	Method	TBLASTX:Maize

Start	1170	End	1433
GI	none	Score	348
Exons	1170..1433, 1171..1413		

Seq. No.	58129	Seq. ID	OJ000310_39.0424.C121
Gene No.	121507	Strand	-
Start	2473	End	2579
Name	OJ000310_39.0424.C121.o1.ts	Method	TBLASTX:Soybean
Start	1170	End	1436
GI	none	Score	132
Exons	1170..1301, 1171..1296, 1302..1415, 1416..1436		

Seq. No.	58129	Seq. ID	OJ000310_39.0424.C121
Gene No.	121507	Strand	-
Start	2473	End	2579
Name	OJ000310_39.0424.C121.o1.tw	Method	TBLASTX:Wheat
Start	1170	End	1436
GI	none	Score	180
Exons	1170..1367, 1171..1299, 1263..1301, 1302..1436, 1306..1407		

Seq. No.	58129	Seq. ID	OJ000310_39.0424.C121
Gene No.	121507	Strand	-
Start	2473	End	2579
Name	OJ000310_39.0424.C121.o2.gs	Method	GENSCAN
Start	2473	End	2579
GI	none	Score	.97
Exons	2473..2579		

Seq. No.	58130	Seq. ID	OJ000310_39.0424.C124
Gene No.	121508	Strand	+
Start	704	End	849
Name	OJ000310_39.0424.C124.o1.gp	Method	AAT/GAP
Start	704	End	849
GI	3761759	Score	253
Exons	704..849		

Seq. No.	58130	Seq. ID	OJ000310_39.0424.C124
Gene No.	121509	Strand	-
Start	18	End	167
Name	OJ000310_39.0424.C124.o1.gs	Method	GENSCAN
Start	18	End	167
GI	none	Score	.99
Exons	18..167		

Seq. No.	58131	Seq. ID	OJ000310_39.0424.C125
Gene No.	121510	Strand	+
Start	1001	End	1092
Name	OJ000310_39.0424.C125.o2.gp	Method	AAT/GAP
Start	1001	End	1092
GI	none	Score	175
Exons	1001..1092		

Seq. No.	58131	Seq. ID	OJ000310_39.0424.C125
Gene No.	121511	Strand	-
Start	631	End	1029
Name	OJ000310_39.0424.C125.o1.gs	Method	GENSCAN
Start	631	End	1029

GI	none	Score	.71
Exons	631..961, 1006..1029		
Seq. No.	58132	Seq. ID	OJ000310_39.0424.C129
Gene No.	121512	Strand	-
Start	883	End	983
Name	OJ000310_39.0424.C129.o1.gs	Method	GENSCAN
Start	883	End	983
GI	none	Score	.83
Exons	883..983		
Seq. No.	58133	Seq. ID	OJ000310_39.0424.C130
Gene No.	121513	Strand	+
Start	1	End	1163
Name	OJ000310_39.0424.C130.o1.np	Method	AAT/NAP
Start	1	End	1163
GI	5734621	Score	63
Exons	1..77, 588..729, 1104..1163		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		
Seq. No.	58134	Seq. ID	OJ000310_39.0424.C135
Gene No.	121514	Strand	+
Start	72	End	679
Name	OJ000310_39.0424.C135.o1.tm	Method	TBLASTX:Maize
Start	36	End	433
GI	none	Score	67
Exons	36..155, 180..431, 212..433		
Seq. No.	58134	Seq. ID	OJ000310_39.0424.C135
Gene No.	121514	Strand	+
Start	72	End	679
Name	OJ000310_39.0424.C135.o1.gs	Method	GENSCAN
Start	72	End	679
GI	none	Score	.67
Exons	72..679		
Seq. No.	58135	Seq. ID	OJ000310_39.0424.C138
Gene No.	121515	Strand	-
Start	1256	End	1326
Name	OJ000310_39.0424.C138.o1.gp	Method	AAT/GAP
Start	1256	End	1326
GI	none	Score	138
Exons	1256..1326		
Seq. No.	58136	Seq. ID	OJ000310_39.0424.C139
Gene No.	121516	Strand	+
Start	1990	End	2780
Name	OJ000310_39.0424.C139.o1.gs	Method	GENSCAN
Start	1990	End	2780
GI	none	Score	.9
Exons	1990..2332, 2752..2780		
Seq. No.	58136	Seq. ID	OJ000310_39.0424.C139
Gene No.	121516	Strand	+
Start	1990	End	2780

Name	OJ000310_39.0424.C139.o1.np	Method	AAT/NAP
Start	1999	End	2346
GI	4895197	Score	199
Exons	1999..2346		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58136	Seq. ID	OJ000310_39.0424.C139
Gene No.	121517	Strand	+
Start	3726	End	3938
Name	OJ000310_39.0424.C139.o1.tc	Method	TBLASTX:Cress
Start	2070	End	2363
GI	none	Score	79
Exons	2070..2171, 2071..2142, 2200..2331, 2211..2363		

Seq. No.	58136	Seq. ID	OJ000310_39.0424.C139
Gene No.	121517	Strand	+
Start	3726	End	3938
Name	OJ000310_39.0424.C139.o1.tw	Method	TBLASTX:Wheat
Start	2070	End	2372
GI	none	Score	82
Exons	2070..2213, 2071..2214, 2200..2331, 2202..2363, 2202..2372		

Seq. No.	58136	Seq. ID	OJ000310_39.0424.C139
Gene No.	121517	Strand	+
Start	3726	End	3938
Name	OJ000310_39.0424.C139.o1.tm	Method	TBLASTX:Maize
Start	2070	End	2333
GI	none	Score	92
Exons	2070..2213, 2071..2214, 2200..2331, 2202..2333, 2202..2330, 2257..2331		

Seq. No.	58136	Seq. ID	OJ000310_39.0424.C139
Gene No.	121517	Strand	+
Start	3726	End	3938
Name	OJ000310_39.0424.C139.o1.ts	Method	TBLASTX:Soybean
Start	2085	End	2331
GI	none	Score	65
Exons	2085..2192, 2086..2214, 2200..2331, 2214..2330		

Seq. No.	58136	Seq. ID	OJ000310_39.0424.C139
Gene No.	121517	Strand	+
Start	3726	End	3938
Name	OJ000310_39.0424.C139.o2.gs	Method	GENSCAN
Start	3726	End	3938
GI	none	Score	.98
Exons	3726..3938		

Seq. No.	58137	Seq. ID	OJ000310_39.0424.C143
Gene No.	121518	Strand	+
Start	668	End	764
Name	OJ000310_39.0424.C143.o1.gs	Method	GENSCAN
Start	668	End	764
GI	none	Score	.62
Exons	668..764		

Seq. No.	58138	Seq. ID	OJ000310_39.0424.C147
Gene No.	121519	Strand	+

Start	18	End	948
Name	OJ000310_39.0424.C147.o1.gp	Method	AAT/GAP
Start	18	End	948
GI	4850_1.R1084	Score	1284
Exons	18..348, 483..546, 660..948		
GI Descrip.	'499099 2.0e-27 (U09942) beta-galactosidase alpha-peptide [Cloning vector pDB31]'		

Seq. No.	58138	Seq. ID	OJ000310_39.0424.C147
Gene No.	121519	Strand	+
Start	18	End	948
Name	OJ000310_39.0424.C147.o1.gs	Method	GENSCAN
Start	158	End	337
GI	none	Score	.67
Exons	158..337		

Seq. No.	58138	Seq. ID	OJ000310_39.0424.C147
Gene No.	121520	Strand	-
Start	611	End	847
Name	OJ000310_39.0424.C147.o1.tm	Method	TBLASTX:Maize
Start	60	End	753
GI	none	Score	64
Exons	60..128, 68..130, 68..130, 72..131, 205..267, 206..268, 213..269, 214..270, 269..346, 270..347, 271..348, 271..348, 478..540, 480..563, 480..563, 654..752, 659..751, 697..753		

Seq. No.	58138	Seq. ID	OJ000310_39.0424.C147
Gene No.	121520	Strand	-
Start	611	End	847
Name	OJ000310_39.0424.C147.o1.ts	Method	TBLASTX:Soybean
Start	197	End	847
GI	none	Score	81
Exons	197..268, 223..264, 271..348, 315..347, 480..563, 480..530, 482..565, 642..836, 659..847, 694..831		

Seq. No.	58138	Seq. ID	OJ000310_39.0424.C147
Gene No.	121520	Strand	-
Start	611	End	847
Name	OJ000310_39.0424.C147.o1.tc	Method	TBLASTX:Cress
Start	271	End	829
GI	none	Score	83
Exons	271..348, 480..563, 482..565, 654..722, 659..829, 694..828		

Seq. No.	58138	Seq. ID	OJ000310_39.0424.C147
Gene No.	121520	Strand	-
Start	611	End	847
Name	OJ000310_39.0424.C147.o2.gs	Method	GENSCAN
Start	611	End	699
GI	none	Score	.57
Exons	611..699		

Seq. No.	58139	Seq. ID	OJ000310_39.0424.C150
Gene No.	121521	Strand	+
Start	65	End	162
Name	OJ000310_39.0424.C150.o1.gs	Method	GENSCAN
Start	65	End	162
GI	none	Score	.73

Exons	65..162		
Seq. No.	58140	Seq. ID	OJ000310_39.0424.C153
Gene No.	121522	Strand	+
Start	21	End	289
Name	OJ000310_39.0424.C153.o1.gs	Method	GENSCAN
Start	21	End	289
GI	none	Score	.57
Exons	21..164, 179..289		
Seq. No.	58140	Seq. ID	OJ000310_39.0424.C153
Gene No.	121523	Strand	-
Start	1	End	733
Name	OJ000310_39.0424.C153.o1.np	Method	AAT/NAP
Start	1	End	733
GI	6456162	Score	95
Exons	1..54, 157..297, 713..733		
GI Descrip.	(AC011622) putative cytochrome P450 [Arabidopsis thaliana]		
Seq. No.	58140	Seq. ID	OJ000310_39.0424.C153
Gene No.	121523	Strand	-
Start	1	End	733
Name	OJ000310_39.0424.C153.o2.np	Method	AAT/NAP
Start	204	End	733
GI	7340909	Score	200
Exons	204..360, 411..733		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	58141	Seq. ID	OJ000310_39.0424.C155
Gene No.	121524	Strand	-
Start	221	End	1404
Name	OJ000310_39.0424.C155.o1.np	Method	AAT/NAP
Start	221	End	1404
GI	4185133	Score	79
Exons	221..405, 1366..1404		
GI Descrip.	(AC005724) putative RING zinc finger protein [Arabidopsis thaliana]		
Seq. No.	58141	Seq. ID	OJ000310_39.0424.C155
Gene No.	121524	Strand	-
Start	221	End	1404
Name	OJ000310_39.0424.C155.o1.gs	Method	GENSCAN
Start	255	End	861
GI	none	Score	.89
Exons	255..736, 773..861		
Seq. No.	58142	Seq. ID	OJ000330_39.0420.C3
Gene No.	121525	Strand	-
Start	193	End	251
Name	OJ000330_39.0420.C3.o1.gs	Method	GENSCAN
Start	193	End	251
GI	none	Score	.73
Exons	193..251		
Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121526	Strand	+
Start	2113	End	2377

Name	OJ000330_39.0420.C4.o1.gp	Method	AAT/GAP
Start	2113	End	2377
GI	5005057	Score	522
Exons	2113..2377		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121527	Strand	+
Start	3599	End	4579
Name	OJ000330_39.0420.C4.o1.np	Method	AAT/NAP
Start	3599	End	4579
GI	4544443	Score	1080
Exons	3599..4579		
GI Descrip.	(AC006592) putative mitochondrial dicarboxylate carrier protein [Arabidopsis thaliana]		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o3.tm	Method	TBLASTX:Maize
Start	1317	End	1989
GI	none	Score	62
Exons	1317..1436, 1335..1484, 1336..1491, 1338..1484, 1339..1485, 1342..1497, 1344..1490, 1346..1375, 1347..1499, 1347..1496, 1353..1472, 1457..1579, 1488..1580, 1488..1580, 1509..1670, 1515..1667, 1515..1667, 1523..1681, 1527..1691, 1529..1672, 1530..1682, 1542..1700, 1553..1693, 1565..1672, 1609..1647, 1676..1789, 1693..1815, 1708..1830, 1709..1783, 1715..1789, 1717..1845, 1723..1836, 1724..1849, 1730..1789, 1787..1819, 1838..1963, 1841..1978, 1844..1915, 1865..1978, 1871..1972, 1872..1958, 1874..1978, 1882..1989		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o4.tm	Method	TBLASTX:Maize
Start	3376	End	3558
GI	none	Score	201
Exons	3376..3558, 3377..3496		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o1.ts	Method	TBLASTX:Soybean
Start	3378	End	4573
GI	none	Score	144
Exons	3378..3485, 3383..3487, 3572..3703, 3598..3699, 3809..4267, 3823..4254, 4262..4561, 4348..4566, 4442..4573		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o2.tw	Method	TBLASTX:Wheat
Start	3586	End	3940
GI	none	Score	176
Exons	3586..3699, 3587..3703, 3794..3940, 3800..3940		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4

Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o1.tc	Method	TBLASTX:Cress
Start	3599	End	4561
GI	none	Score	144
Exons	3599..3703, 3616..3681, 3818..4267, 3823..3981, 3902..4099, 4066..4245, 4289..4396, 4348..4395, 4378..4551, 4418..4561		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o2.tm	Method	TBLASTX:Maize
Start	3773	End	4093
GI	none	Score	35
Exons	3773..3796, 3794..3979, 3794..3979, 3805..3993, 3980..4003, 4004..4072, 4044..4073, 4072..4092, 4073..4093		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o2.gp	Method	AAT/GAP
Start	4078	End	4810
GI	4697_1.R1084	Score	1331
Exons	4078..4810		
GI Descrip.	'4544443/gb|AAD22351.1|AC006592_8 3.0e-36 (AC006592) putative mitochondrial uncoupling protein [Arabidopsis thaliana]'		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o1.tm	Method	TBLASTX:Maize
Start	4253	End	4582
GI	none	Score	446
Exons	4253..4582, 4300..4578		

Seq. No.	58143	Seq. ID	OJ000330_39.0420.C4
Gene No.	121528	Strand	-
Start	4078	End	4810
Name	OJ000330_39.0420.C4.o1.tw	Method	TBLASTX:Wheat
Start	4351	End	4582
GI	none	Score	373
Exons	4351..4581, 4352..4582		

Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121529	Strand	+
Start	1209	End	3114
Name	OJ000330_39.0420.C5.o1.gs	Method	GENSCAN
Start	1209	End	3114
GI	none	Score	.7
Exons	1209..1266, 2728..2788, 2949..3114		

Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121530	Strand	+
Start	6805	End	13324
Name	OJ000330_39.0420.C5.o2.np	Method	AAT/NAP
Start	6805	End	13324
GI	7485969	Score	452

Exons	6805..6899, 11678..11772, 12017..12102, 12189..12351, 12807..12927, 13043..13324		
GI Descrip.	hypothetical protein F22K18.240 - Arabidopsis thaliana gi|4220534|emb|CAA23007.1| (AL035356) putative protein [Arabidopsis thaliana] gi|7269306|emb|CAB79366.1| (AL161561) putative protein [Arabidopsis thaliana]		
Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121530	Strand	+
Start	6805	End	13324
Name	OJ000330_39.0420.C5.o1.np	Method	AAT/NAP
Start	7570	End	13324
GI	7485969	Score	454
Exons	7570..7590, 11690..11772, 12017..12102, 12189..12351, 12807..12927, 13043..13324		
GI Descrip.	hypothetical protein F22K18.240 - Arabidopsis thaliana gi|4220534|emb|CAA23007.1| (AL035356) putative protein [Arabidopsis thaliana] gi|7269306|emb|CAB79366.1| (AL161561) putative protein [Arabidopsis thaliana]		
Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121530	Strand	+
Start	6805	End	13324
Name	OJ000330_39.0420.C5.o3.gs	Method	GENSCAN
Start	8739	End	13200
GI	none	Score	.8
Exons	8739..9166, 10755..11616, 11690..11772, 12017..12102, 12189..12351, 12807..12927, 13043..13200		
Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121531	Strand	-
Start	3394	End	7729
Name	OJ000330_39.0420.C5.o2.gs	Method	GENSCAN
Start	3394	End	7729
GI	none	Score	.64
Exons	3394..3639, 4041..4063, 4412..4822, 6157..6253, 6259..6332, 7603..7729		
Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121532	Strand	
Start	11314	End	11553
Name	OJ000330_39.0420.C5.o2.tm	Method	TBLASTX:Maize
Start	11314	End	11553
GI	none	Score	156
Exons	11314..11478, 11314..11466, 11316..11483, 11463..11552, 11464..11553		
Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121533	Strand	
Start	11585	End	13206
Name	OJ000330_39.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	11585	End	13201
GI	none	Score	42
Exons	11585..11611, 11587..11613, 11587..11610, 11686..11769, 11689..11772, 11690..11770, 12005..12103, 12006..12107, 12013..12123, 12016..12108, 12190..12399, 12191..12352, 12801..12926, 12804..12926, 12805..12930, 12805..12930,		

13041..13190, 13042..13188, 13043..13198, 13047..13196, 13061..13201

Seq. No.	58144	Seq. ID	OJ000330_39.0420.C5
Gene No.	121533	Strand	
Start	11585	End	13206
Name	OJ000330_39.0420.C5.o1.ts	Method	TBLASTX:Soybean
Start	12051	End	13206
GI	none	Score	76
Exons	12051..12104, 12191..12352, 12198..12404, 12202..12351, 12801..12923, 12805..12930, 13042..13206, 13043..13201		

Seq. No.	58145	Seq. ID	OJ000330_39.0420.C6
Gene No.	121534	Strand	+
Start	1	End	281
Name	OJ000330_39.0420.C6.o1.gp	Method	AAT/GAP
Start	1	End	281
GI	none	Score	523
Exons	1..281		

Seq. No.	58145	Seq. ID	OJ000330_39.0420.C6
Gene No.	121535	Strand	+
Start	3954	End	4262
Name	OJ000330_39.0420.C6.o1.np	Method	AAT/NAP
Start	3954	End	4262
GI	7486025	Score	189
Exons	3954..4262		
GI Descrip.	hypothetical protein F23E12.50 - Arabidopsis thaliana gi|3080411|emb|CAA18730.1| (AL022604) putative protein [Arabidopsis thaliana] gi|7270491|emb|CAB80256.1| (AL161587) putative protein [Arabidopsis thaliana]		

Seq. No.	58145	Seq. ID	OJ000330_39.0420.C6
Gene No.	121536	Strand	-
Start	392	End	724
Name	OJ000330_39.0420.C6.o2.gp	Method	AAT/GAP
Start	392	End	724
GI	none	Score	616
Exons	392..724		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121537	Strand	+
Start	1239	End	3849
Name	OJ000330_39.0420.C7.o1.np	Method	AAT/NAP
Start	1239	End	3849
GI	2335098	Score	100
Exons	1239..1335, 1938..2189, 3800..3849		
GI Descrip.	(AC002339) unknown protein [Arabidopsis thaliana]		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121538	Strand	+
Start	4896	End	12939
Name	OJ000330_39.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	1956	End	2239
GI	none	Score	167
Exons	1956..2105, 1958..2113, 2108..2188, 2111..2188, 2186..2239, 2200..2238		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121538	Strand	+
Start	4896	End	12939
Name	OJ000330_39.0420.C7.o2.gs	Method	GENSCAN
Start	4896	End	12697
GI	none	Score	.49
Exons	4896..4911, 5014..5081, 5859..6032, 6227..6455, 7835..8094, 8753..8834, 9524..9620, 9798..9891, 9998..10132, 10256..10306, 10765..11172, 11673..11714, 11806..11921, 12146..12251, 12542..12697		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121538	Strand	+
Start	4896	End	12939
Name	OJ000330_39.0420.C7.o1.gp	Method	AAT/GAP
Start	7781	End	10652
GI	none	Score	1787
Exons	7781..8094, 8753..8834, 9827..9891, 10046..10132, 10256..10652		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121538	Strand	+
Start	4896	End	12939
Name	OJ000330_39.0420.C7.o2.tm	Method	TBLASTX:Maize
Start	7922	End	10485
GI	none	Score	43
Exons	7922..7954, 7969..8040, 7977..8090, 7978..8094, 7998..8096, 8750..8836, 8750..8833, 8751..8840, 8752..8838, 9798..9890, 9802..9906, 10048..10140, 10249..10335, 10250..10360, 10256..10360, 10257..10361, 10455..10481, 10456..10482, 10456..10485		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121538	Strand	+
Start	4896	End	12939
Name	OJ000330_39.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	7953	End	9906
GI	none	Score	220
Exons	7953..8090, 7954..8094, 8750..8836, 8750..8830, 8751..8834, 8752..8838, 9798..9896, 9802..9906		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121538	Strand	+
Start	4896	End	12939
Name	OJ000330_39.0420.C7.o2.np	Method	AAT/NAP
Start	11038	End	12697
GI	7485851	Score	513
Exons	11038..11177, 11678..11726, 11815..11921, 12146..12251, 12357..12410, 12542..12697		
GI Descrip.	hypothetical protein F20D10.210 - Arabidopsis thaliana gi|4467115|emb|CAB37549.1| (AL035538) putative protein [Arabidopsis thaliana] gi|7270792|emb|CAB80474.1| (AL161592) putative protein [Arabidopsis thaliana]		

Seq. No.	58146	Seq. ID	OJ000330_39.0420.C7
Gene No.	121538	Strand	+
Start	4896	End	12939

Name	OJ000330_39.0420.C7.o2.gp	Method	AAT/GAP
Start	12346	End	12939
GI	none	Score	820
Exons	12346..12773, 12904..12939		

Seq. No.	58147	Seq. ID	OJ000330_39.0420.C8
Gene No.	121539	Strand	-
Start	42	End	588
Name	OJ000330_39.0420.C8.o1.gp	Method	AAT/GAP
Start	42	End	588
GI	none	Score	1065
Exons	42..588		

Seq. No.	58147	Seq. ID	OJ000330_39.0420.C8
Gene No.	121540	Strand	-
Start	2794	End	4751
Name	OJ000330_39.0420.C8.o1.np	Method	AAT/NAP
Start	2794	End	4751
GI	7487617	Score	159
Exons	2794..3085, 3128..3290, 3385..3484, 4731..4751		
GI Descrip.	hypothetical protein T3K9.10 - Arabidopsis thaliana gi|3402704|gb|AAD11998.1| (AC004261) unknown protein [Arabidopsis thaliana]		

Seq. No.	58147	Seq. ID	OJ000330_39.0420.C8
Gene No.	121540	Strand	-
Start	2794	End	4751
Name	OJ000330_39.0420.C8.o2.gp	Method	AAT/GAP
Start	3103	End	3578
GI	59186_1.R1084	Score	705
Exons	3103..3290, 3385..3578		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	58148	Seq. ID	OJ000330_39.0420.C9
Gene No.	121541	Strand	+
Start	6	End	197
Name	OJ000330_39.0420.C9.o1.gs	Method	GENSCAN
Start	6	End	197
GI	none	Score	.61
Exons	6..197		

Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121542	Strand	+
Start	9883	End	14705
Name	OJ000330_39.0420.C10.o3.gs	Method	GENSCAN
Start	9883	End	14705
GI	none	Score	.51
Exons	9883..10210, 12016..12326, 13294..13653, 14478..14705		

Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121542	Strand	+
Start	9883	End	14705
Name	OJ000330_39.0420.C10.o3.gp	Method	AAT/GAP
Start	14224	End	14364
GI	LIB3477-003-P1-K1-A5	Score	282
Exons	14224..14364		

GI Descrip.	'6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121543	Strand	+
Start	17673	End	20397
Name	OJ000330_39.0420.C10.o4.gp	Method	AAT/GAP
Start	17528	End	20220
GI	15750_1.R1084	Score	2127
Exons	17528..17759, 17855..18033, 18204..18393, 18851..19012, 19407..19715, 20164..20220		
GI Descrip.	'2739381 1.0e-107 (AC002505) putative patatin [Arabidopsis thaliana]'		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121543	Strand	+
Start	17673	End	20397
Name	OJ000330_39.0420.C10.o3.np	Method	AAT/NAP
Start	17604	End	20397
GI	4539677	Score	969
Exons	17604..17759, 17855..18036, 18204..18393, 18851..19012, 19407..19715, 20164..20397		
GI Descrip.	(AF061282) patatin-like protein [Sorghum bicolor]		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121543	Strand	+
Start	17673	End	20397
Name	OJ000330_39.0420.C10.o4.gs	Method	GENSCAN
Start	17673	End	20397
GI	none	Score	.75
Exons	17673..17759, 17855..18033, 18204..18393, 18851..19012, 19407..19715, 20164..20397		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121544	Strand	+
Start	23104	End	23987
Name	OJ000330_39.0420.C10.o4.np	Method	AAT/NAP
Start	23104	End	23987
GI	4680186	Score	176
Exons	23104..23263, 23847..23987		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121545	Strand	+
Start	24915	End	27006
Name	OJ000330_39.0420.C10.o5.np	Method	AAT/NAP
Start	24915	End	27006
GI	6069653	Score	959
Exons	24915..25116, 25151..25910, 25992..27006		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121546	Strand	-
Start	88	End	5407
Name	OJ000330_39.0420.C10.o1.gp	Method	AAT/GAP
Start	88	End	1017
GI	none	Score	1604

Exons	88..291, 375..1017		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121546	Strand	-
Start	88	End	5407
Name	OJ000330_39.0420.C10.o1.gs	Method	GENSCAN
Start	90	End	5407
GI	none	Score	.73
Exons	90..203, 375..1222, 2136..2193, 2277..2333, 3319..3361, 3447..3532, 3849..4008, 5343..5407		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121546	Strand	-
Start	88	End	5407
Name	OJ000330_39.0420.C10.o2.gp	Method	AAT/GAP
Start	3444	End	4369
GI	2312641	Score	615
Exons	3444..3532, 3849..4008, 4249..4369		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121547	Strand	-
Start	5653	End	8867
Name	OJ000330_39.0420.C10.o1.np	Method	AAT/NAP
Start	5653	End	8867
GI	6063557	Score	124
Exons	5653..5853, 6027..6138, 6734..6853, 7434..7766, 7876..8555, 8770..8867		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121547	Strand	-
Start	5653	End	8867
Name	OJ000330_39.0420.C10.o2.np	Method	AAT/NAP
Start	6480	End	8673
GI	6691467	Score	551
Exons	6480..6519, 7692..8673		
GI Descrip.	(AB030708) AHMP1 [Triticum aestivum]		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121547	Strand	-
Start	5653	End	8867
Name	OJ000330_39.0420.C10.o2.gs	Method	GENSCAN
Start	7483	End	8673
GI	none	Score	.69
Exons	7483..8673		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121548	Strand	-
Start	11738	End	26734
Name	OJ000330_39.0420.C10.o2.tm	Method	TBLASTX:Maize
Start	8248	End	8544
GI	none	Score	103
Exons	8248..8544, 8273..8479		
Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121548	Strand	-
Start	11738	End	26734

Name	OJ000330_39.0420.C10.o6.np	Method	AAT/NAP
Start	11738	End	26734
GI	5123787	Score	107
Exons	11738..11762, 12064..12117, 25000..25140, 25284..25608, 25773..25905, 26651..26734		
GI Descrip.	(AJ007041) trithorax homologue 2 [Homo sapiens]		

Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121548	Strand	-
Start	11738	End	26734
Name	OJ000330_39.0420.C10.o1.tm	Method	TBLASTX:Maize
Start	17657	End	20382
GI	none	Score	123
Exons	17657..17767, 17670..17768, 17670..17768, 17821..18036, 17852..18037, 17853..18032, 17855..18034, 18208..18381, 18211..18429, 18243..18392, 18836..18964, 18871..18960, 18953..19012, 18979..19017, 19430..19531, 19542..19715, 19568..19717, 19571..19711, 20158..20382, 20175..20375		

Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121548	Strand	-
Start	11738	End	26734
Name	OJ000330_39.0420.C10.o1.tc	Method	TBLASTX:Cress
Start	17673	End	20379
GI	none	Score	115
Exons	17673..17768, 17675..17755, 17679..17768, 17852..18016, 17855..18031, 17857..18027, 18211..18396, 18253..18384, 18396..18428, 18836..19048, 18883..19011, 19455..19532, 19530..19712, 20167..20379		

Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121548	Strand	-
Start	11738	End	26734
Name	OJ000330_39.0420.C10.o1.ts	Method	TBLASTX:Soybean
Start	17673	End	18039
GI	none	Score	118
Exons	17673..17768, 17675..17755, 17821..18039, 17855..18031		

Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121548	Strand	-
Start	11738	End	26734
Name	OJ000330_39.0420.C10.o5.gp	Method	AAT/GAP
Start	20282	End	20638
GI	54401_1.R1084	Score	710
Exons	20282..20638		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	58149	Seq. ID	OJ000330_39.0420.C10
Gene No.	121548	Strand	-
Start	11738	End	26734
Name	OJ000330_39.0420.C10.o6.gp	Method	AAT/GAP
Start	23405	End	23831
GI	4878407	Score	676
Exons	23405..23831		
GI Descrip.	6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	58150	Seq. ID	OJ000330_39.0420.C11
Gene No.	121549	Strand	+
Start	135	End	5477
Name	OJ000330_39.0420.C11.o1.np	Method	AAT/NAP
Start	135	End	2137
GI	6907106	Score	435
Exons	135..170, 1514..1856, 1930..2137		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58150	Seq. ID	OJ000330_39.0420.C11
Gene No.	121549	Strand	+
Start	135	End	5477
Name	OJ000330_39.0420.C11.o1.gs	Method	GENSCAN
Start	1427	End	5477
GI	none	Score	.43
Exons	1427..1614, 1651..1999, 2370..2442, 5305..5477		

Seq. No.	58150	Seq. ID	OJ000330_39.0420.C11
Gene No.	121550	Strand	-
Start	8344	End	9975
Name	OJ000330_39.0420.C11.o1.tm	Method	TBLASTX:Maize
Start	1668	End	2039
GI	none	Score	132
Exons	1668..1904, 1686..1892, 1833..1916, 1882..1905, 1909..1980, 1911..1985, 1912..2025, 1992..2039, 1994..2038		

Seq. No.	58150	Seq. ID	OJ000330_39.0420.C11
Gene No.	121550	Strand	-
Start	8344	End	9975
Name	OJ000330_39.0420.C11.o2.gs	Method	GENSCAN
Start	8344	End	9600
GI	none	Score	.86
Exons	8344..8695, 8818..9350, 9508..9600		

Seq. No.	58150	Seq. ID	OJ000330_39.0420.C11
Gene No.	121550	Strand	-
Start	8344	End	9975
Name	OJ000330_39.0420.C11.o2.np	Method	AAT/NAP
Start	8365	End	9975
GI	6907086	Score	562
Exons	8365..8695, 8801..8871, 8913..9145, 9204..9975		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58151	Seq. ID	OJ000330_39.0420.C12
Gene No.	121551	Strand	-
Start	1	End	686
Name	OJ000330_39.0420.C12.o1.np	Method	AAT/NAP
Start	1	End	645
GI	7486321	Score	244
Exons	1..386, 561..645		
GI Descrip.	hypothetical protein F28M20.140 - Arabidopsis thaliana gi|3281861|emb|CAA19756.1| (AL031004) putative protein [Arabidopsis thaliana] gi|7270070|emb|CAB79885.1| (AL161579) putative protein [Arabidopsis thaliana]		

Seq. No.	58151	Seq. ID	OJ000330_39.0420.C12
Gene No.	121551	Strand	-
Start	1	End	686
Name	OJ000330_39.0420.C12.o1.tc	Method	TBLASTX:Cress
Start	165	End	315
GI	none	Score	78
Exons	165..314, 178..315		

Seq. No.	58151	Seq. ID	OJ000330_39.0420.C12
Gene No.	121551	Strand	-
Start	1	End	686
Name	OJ000330_39.0420.C12.o1.tm	Method	TBLASTX:Maize
Start	166	End	648
GI	none	Score	272
Exons	166..387, 168..389, 170..388, 562..648	561..647, 561..647, 562..648,	

Seq. No.	58151	Seq. ID	OJ000330_39.0420.C12
Gene No.	121551	Strand	-
Start	1	End	686
Name	OJ000330_39.0420.C12.o1.ts	Method	TBLASTX:Soybean
Start	168	End	608
GI	none	Score	110
Exons	168..302, 169..303, 303..389,	331..387, 561..608	

Seq. No.	58151	Seq. ID	OJ000330_39.0420.C12
Gene No.	121551	Strand	-
Start	1	End	686
Name	OJ000330_39.0420.C12.o1.gs	Method	GENSCAN
Start	171	End	686
GI	none	Score	.91
Exons	171..386, 561..686		

Seq. No.	58152	Seq. ID	OJ000310_38.0425.C3
Gene No.	121552	Strand	+
Start	3	End	127
Name	OJ000310_38.0425.C3.o1.gs	Method	GENSCAN
Start	3	End	127
GI	none	Score	.72
Exons	3..48, 107..127		

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121553	Strand	+
Start	82	End	329
Name	OJ000310_38.0425.C5.o1.gs	Method	GENSCAN
Start	82	End	329
GI	none	Score	.69
Exons	82..329		

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121554	Strand	-
Start	1077	End	5099
Name	OJ000310_38.0425.C5.o1.gp	Method	AAT/GAP
Start	869	End	1367
GI	2801103	Score	577
Exons	869..1136, 1300..1367		
GI Descrip.	5262764/emb|CAB45912.1| 1.0e-13 (AL080283) putative protein		

[Arabidopsis thaliana]

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121554	Strand	-
Start	1077	End	5099
Name	OJ000310_38.0425.C5.o1.tm	Method	TBLASTX:Maize
Start	1065	End	1589
GI	none	Score	65
Exons	1065..1145, 1065..1145, 1285..1410, 1286..1363, 1298..1411, 1300..1410, 1484..1570, 1484..1588, 1488..1589		

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121554	Strand	-
Start	1077	End	5099
Name	OJ000310_38.0425.C5.o1.np	Method	AAT/NAP
Start	1074	End	4974
GI	7486379	Score	794
Exons	1074..1136, 1300..1409, 1489..1586, 1646..1747, 2082..2187, 2616..2700, 2809..2862, 2944..3056, 3757..3800, 4763..4974		
GI Descrip.	hypothetical protein F3L17.100 - Arabidopsis thaliana gi|5262764|emb|CAB45912.1| (AL080283) putative protein [Arabidopsis thaliana] gi|7270056|emb|CAB79871.1| (AL161579) putative protein [Arabidopsis thaliana]		

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121554	Strand	-
Start	1077	End	5099
Name	OJ000310_38.0425.C5.o2.gs	Method	GENSCAN
Start	1077	End	5099
GI	none	Score	.65
Exons	1077..1136, 1300..1409, 1489..1586, 1661..1747, 2082..2187, 2616..2700, 2944..3056, 3757..4285, 4735..4841, 4949..5099		

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121554	Strand	-
Start	1077	End	5099
Name	OJ000310_38.0425.C5.o1.ts	Method	TBLASTX:Soybean
Start	1086	End	1576
GI	none	Score	72
Exons	1086..1145, 1315..1410, 1484..1576, 1488..1571		

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121554	Strand	-
Start	1077	End	5099
Name	OJ000310_38.0425.C5.o1.tc	Method	TBLASTX:Cress
Start	2084	End	3058
GI	none	Score	75
Exons	2084..2191, 2088..2189, 2588..2701, 2617..2703, 2809..2871, 2938..3057, 2957..3058		

Seq. No.	58153	Seq. ID	OJ000310_38.0425.C5
Gene No.	121554	Strand	-
Start	1077	End	5099
Name	OJ000310_38.0425.C5.o2.gp	Method	AAT/GAP
Start	3362	End	3512
GI	uC-osflcyp177g01a1	Score	239
Exons	3362..3512		

GI Descrip.	'4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		
Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121555	Strand	+
Start	319	End	2302
Name	OJ000310_38.0425.C6.o1.gs	Method	GENSCAN
Start	319	End	2302
GI	none	Score	.83
Exons	319..401, 592..629, 1117..1295, 1358..2302		
Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121555	Strand	+
Start	319	End	2302
Name	OJ000310_38.0425.C6.o1.np	Method	AAT/NAP
Start	673	End	1171
GI	7523517	Score	338
Exons	673..972, 1117..1171		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121556	Strand	+
Start	2451	End	5164
Name	OJ000310_38.0425.C6.o2.gs	Method	GENSCAN
Start	2451	End	3996
GI	none	Score	.52
Exons	2451..2700, 2894..3081, 3106..3600, 3664..3996		
Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121556	Strand	+
Start	2451	End	5164
Name	OJ000310_38.0425.C6.o3.np	Method	AAT/NAP
Start	2646	End	5126
GI	7228457	Score	1627
Exons	2646..4188, 4242..5126		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121556	Strand	+
Start	2451	End	5164
Name	OJ000310_38.0425.C6.o3.gs	Method	GENSCAN
Start	4374	End	5164
GI	none	Score	.95
Exons	4374..5164		
Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121557	Strand	-
Start	1	End	3042
Name	OJ000310_38.0425.C6.o2.np	Method	AAT/NAP
Start	1	End	2760
GI	6721512	Score	115
Exons	1..32, 888..1026, 1054..1166, 2729..2760		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6

Gene No.	121557	Strand	-
Start	1	End	3042
Name	OJ000310_38.0425.C6.o4.tw	Method	TBLASTX:Wheat
Start	2645	End	3042
GI	none	Score	55
Exons	2645..2695, 2693..2812, 2696..2809, 2768..2869, 2844..2993, 2866..3042		

Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121558	Strand	
Start	3673	End	4128
Name	OJ000310_38.0425.C6.o3.tw	Method	TBLASTX:Wheat
Start	3673	End	4128
GI	none	Score	129
Exons	3673..3855, 3681..3854, 3892..4128, 3894..3980, 3904..4071		

Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121559	Strand	
Start	4319	End	4805
Name	OJ000310_38.0425.C6.o1.tw	Method	TBLASTX:Wheat
Start	4319	End	4775
GI	none	Score	530
Exons	4319..4774, 4320..4775		

Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121559	Strand	
Start	4319	End	4805
Name	OJ000310_38.0425.C6.o2.ts	Method	TBLASTX:Soybean
Start	4359	End	4724
GI	none	Score	106
Exons	4359..4583, 4590..4724		

Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121559	Strand	
Start	4319	End	4805
Name	OJ000310_38.0425.C6.o1.tm	Method	TBLASTX:Maize
Start	4449	End	4805
GI	none	Score	408
Exons	4449..4805, 4511..4804		

Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121560	Strand	
Start	4833	End	5222
Name	OJ000310_38.0425.C6.o2.tm	Method	TBLASTX:Maize
Start	4833	End	5219
GI	none	Score	323
Exons	4833..5219, 4937..5215		

Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6
Gene No.	121560	Strand	
Start	4833	End	5222
Name	OJ000310_38.0425.C6.o1.ts	Method	TBLASTX:Soybean
Start	4866	End	5102
GI	none	Score	221
Exons	4866..5102, 4946..5092		

Seq. No.	58154	Seq. ID	OJ000310_38.0425.C6

Gene No.	121560	Strand	
Start	4833	End	5222
Name	OJ000310_38.0425.C6.o2.tw	Method	TBLASTX:Wheat
Start	4890	End	5222
GI	none	Score	367
Exons	4890..5222, 4937..5203		

Seq. No.	58155	Seq. ID	OJ000310_38.0425.C7
Gene No.	121561	Strand	+
Start	4020	End	5505
Name	OJ000310_38.0425.C7.o3.np	Method	AAT/NAP
Start	4020	End	5505
GI	7523517	Score	340
Exons	4020..4330, 5465..5505		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58155	Seq. ID	OJ000310_38.0425.C7
Gene No.	121562	Strand	-
Start	81	End	5505
Name	OJ000310_38.0425.C7.o1.gs	Method	GENSCAN
Start	81	End	4866
GI	none	Score	.71
Exons	81..173, 568..701, 710..1081, 1192..1337, 1474..2214, 2288..2346, 2417..2608, 2676..2800, 2967..3054, 3152..3183, 3501..3685, 3847..3961, 3988..4112, 4266..4351, 4750..4866		

Seq. No.	58155	Seq. ID	OJ000310_38.0425.C7
Gene No.	121562	Strand	-
Start	81	End	5505
Name	OJ000310_38.0425.C7.o1.np	Method	AAT/NAP
Start	1473	End	3641
GI	6721561	Score	1106
Exons	1473..2214, 2288..2346, 2417..2635, 3600..3641		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58155	Seq. ID	OJ000310_38.0425.C7
Gene No.	121562	Strand	-
Start	81	End	5505
Name	OJ000310_38.0425.C7.o4.np	Method	AAT/NAP
Start	2785	End	5505
GI	6721512	Score	110
Exons	2785..2833, 4233..4373, 4401..4492, 5476..5505		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	58155	Seq. ID	OJ000310_38.0425.C7
Gene No.	121562	Strand	-
Start	81	End	5505
Name	OJ000310_38.0425.C7.o2.np	Method	AAT/NAP
Start	2893	End	3478
GI	6907089	Score	235
Exons	2893..3478		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58156	Seq. ID	OJ000310_38.0425.C9
Gene No.	121563	Strand	-
Start	1	End	1160
Name	OJ000310_38.0425.C9.o1.gp	Method	AAT/GAP
Start	1	End	1130
GI	64853_1.R1084	Score	635
Exons	1..45, 822..1130		
GI Descrip.	'4190974/dbj|BAA74448| 0.0e+00 (AB018442) phytochrome C [Oryza sativa]'		

Seq. No.	58156	Seq. ID	OJ000310_38.0425.C9
Gene No.	121563	Strand	-
Start	1	End	1160
Name	OJ000310_38.0425.C9.o1.np	Method	AAT/NAP
Start	1	End	1160
GI	2388578	Score	347
Exons	1..45, 822..1160		
GI Descrip.	(AC000098) Similar to Mycobacterium RlpF (gb|Z84395). ESTs gb|T75785,gb|R30580,gb|T04698 come from this gene. [Arabidopsis thaliana]		

Seq. No.	58156	Seq. ID	OJ000310_38.0425.C9
Gene No.	121563	Strand	-
Start	1	End	1160
Name	OJ000310_38.0425.C9.o1.tc	Method	TBLASTX:Cress
Start	1	End	1123
GI	none	Score	69
Exons	1..48, 3..47, 813..848, 817..948, 821..1123, 933..1079		

Seq. No.	58156	Seq. ID	OJ000310_38.0425.C9
Gene No.	121563	Strand	-
Start	1	End	1160
Name	OJ000310_38.0425.C9.o1.tm	Method	TBLASTX:Maize
Start	1	End	1130
GI	none	Score	76
Exons	1..48, 3..47, 801..848, 821..1129, 822..1130, 933..1130		

Seq. No.	58156	Seq. ID	OJ000310_38.0425.C9
Gene No.	121563	Strand	-
Start	1	End	1160
Name	OJ000310_38.0425.C9.o1.ts	Method	TBLASTX:Soybean
Start	3	End	1136
GI	none	Score	47
Exons	3..47, 821..874, 821..1135, 933..1136		

Seq. No.	58156	Seq. ID	OJ000310_38.0425.C9
Gene No.	121563	Strand	-
Start	1	End	1160
Name	OJ000310_38.0425.C9.o1.gs	Method	GENSCAN
Start	20	End	1130
GI	none	Score	.49
Exons	20..45, 822..1130		

Seq. No.	58157	Seq. ID	OJ000310_38.0425.C10
Gene No.	121564	Strand	+
Start	1	End	715
Name	OJ000310_38.0425.C10.o1.gp	Method	AAT/GAP

Start	1	End	525
GI	none	Score	1003
Exons	1..525		

Seq. No.	58157	Seq. ID	OJ000310_38.0425.C10
Gene No.	121564	Strand	+
Start	1	End	715
Name	OJ000310_38.0425.C10.o1.np	Method	AAT/NAP
Start	1	End	712
GI	6911877	Score	399
Exons	1..158, 260..712		
GI Descrip.	(AL138655) putative protein [Arabidopsis thaliana]		

Seq. No.	58157	Seq. ID	OJ000310_38.0425.C10
Gene No.	121564	Strand	+
Start	1	End	715
Name	OJ000310_38.0425.C10.o1.gs	Method	GENSCAN
Start	65	End	715
GI	none	Score	.69
Exons	65..715		

Seq. No.	58157	Seq. ID	OJ000310_38.0425.C10
Gene No.	121565	Strand	-
Start	591	End	993
Name	OJ000310_38.0425.C10.o1.ts	Method	TBLASTX:Soybean
Start	269	End	714
GI	none	Score	128
Exons	269..421, 443..709, 565..714		

Seq. No.	58157	Seq. ID	OJ000310_38.0425.C10
Gene No.	121565	Strand	-
Start	591	End	993
Name	OJ000310_38.0425.C10.o1.tc	Method	TBLASTX:Cress
Start	443	End	724
GI	none	Score	235
Exons	443..724, 556..714		

Seq. No.	58157	Seq. ID	OJ000310_38.0425.C10
Gene No.	121565	Strand	-
Start	591	End	993
Name	OJ000310_38.0425.C10.o2.gp	Method	AAT/GAP
Start	591	End	993
GI	uC-osrocyp005f04a1	Score	794
Exons	591..993		
GI Descrip.	'3894191 1.0e-08 (AC005662) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58158	Seq. ID	OJ000310_38.0425.C13
Gene No.	121566	Strand	+
Start	1	End	811
Name	OJ000310_38.0425.C13.o1.np	Method	AAT/NAP
Start	1	End	811
GI	7450871	Score	336
Exons	1..84, 306..397, 621..811		
GI Descrip.	probable methyltransferase F28M20.20 - Arabidopsis thaliana gi|3281849|emb|CAA19744.1| (AL031004) methyltransferase - like protein [Arabidopsis thaliana] gi|7270082|emb|CAB79897.1|		

(AL161579) methyltransferase-like protein [Arabidopsis thaliana]

Seq. No.	58158	Seq. ID	OJ000310_38.0425.C13
Gene No.	121567	Strand	+
Start	725	End	1200
Name	OJ000310_38.0425.C13.o1.gp	Method	AAT/GAP
Start	725	End	1200
GI	none	Score	621
Exons	725..827, 968..1200		

Seq. No.	58158	Seq. ID	OJ000310_38.0425.C13
Gene No.	121568	Strand	-
Start	1504	End	3964
Name	OJ000310_38.0425.C13.o1.ts	Method	TBLASTX:Soybean
Start	40	End	808
GI	none	Score	72
Exons	40..81, 41..82, 304..375, 608..808, 613..786		

Seq. No.	58158	Seq. ID	OJ000310_38.0425.C13
Gene No.	121568	Strand	-
Start	1504	End	3964
Name	OJ000310_38.0425.C13.o1.tc	Method	TBLASTX:Cress
Start	41	End	805
GI	none	Score	68
Exons	41..82, 306..395, 307..396, 602..805, 625..801		

Seq. No.	58158	Seq. ID	OJ000310_38.0425.C13
Gene No.	121568	Strand	-
Start	1504	End	3964
Name	OJ000310_38.0425.C13.o2.gs	Method	GENSCAN
Start	1504	End	3964
GI	none	Score	.86
Exons	1504..2205, 2331..2462, 2981..3244, 3440..3763, 3881..3964		

Seq. No.	58159	Seq. ID	OJ000310_38.0425.C15
Gene No.	121569	Strand	+
Start	1227	End	1868
Name	OJ000310_38.0425.C15.o1.gs	Method	GENSCAN
Start	1227	End	1313
GI	none	Score	.97
Exons	1227..1313		

Seq. No.	58159	Seq. ID	OJ000310_38.0425.C15
Gene No.	121569	Strand	+
Start	1227	End	1868
Name	OJ000310_38.0425.C15.o1.np	Method	AAT/NAP
Start	1227	End	1868
GI	7441349	Score	134
Exons	1227..1318, 1689..1868		
GI Descrip.	beta-adaptin homolog F8L21.170 - Arabidopsis thaliana gi|5596484|emb|CAB51422.1| (AL096882) beta-adaptin-like protein [Arabidopsis thaliana] gi|7267837|emb|CAB81239.1| (AL161531) beta-adaptin-like protein [Arabidopsis thaliana]		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121570	Strand	+
Start	52	End	4990

Name	OJ000310_38.0425.C16.o1.gs	Method	GENSCAN
Start	52	End	4726
GI	none	Score	.82
Exons	52..102, 161..358, 686..936, 1059..1158, 1552..1731, 1816..1908, 2180..2391, 2516..2579, 2651..2854, 3128..3220, 3310..3701, 3819..4008, 4189..4296, 4430..4726		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121570	Strand	+
Start	52	End	4990
Name	OJ000310_38.0425.C16.o1.np	Method	AAT/NAP
Start	88	End	4726
GI	7385055	Score	3258
Exons	88..358, 483..596, 686..936, 1024..1158, 1552..1731, 1816..1908, 2180..2391, 2516..2579, 2651..2830, 3128..3220, 3310..3701, 3819..4008, 4093..4296, 4430..4726		
GI Descrip.	(AF216387) beta-adaptin-like protein C [Arabidopsis thaliana]		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121570	Strand	+
Start	52	End	4990
Name	OJ000310_38.0425.C16.o1.gp	Method	AAT/GAP
Start	2656	End	4990
GI	16044_1.R1084	Score	3059
Exons	2656..2830, 3128..3220, 3310..3701, 3819..4008, 4093..4296, 4430..4990		
GI Descrip.	'5596484/emb|CAB51422.1| 1.0e-151 (AL096882) beta-adaptin-like protein [Arabidopsis thaliana]'		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121571	Strand	+
Start	14602	End	16020
Name	OJ000310_38.0425.C16.o3.gs	Method	GENSCAN
Start	14602	End	16020
GI	none	Score	.54
Exons	14602..16020		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121571	Strand	+
Start	14602	End	16020
Name	OJ000310_38.0425.C16.o5.gp	Method	AAT/GAP
Start	14645	End	15092
GI	none	Score	812
Exons	14645..15092		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o1.tc	Method	TBLASTX:Cress
Start	158	End	574
GI	none	Score	326
Exons	158..358, 158..358, 160..360, 160..360, 474..572, 477..572, 481..573, 482..574, 482..574		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257

Name	OJ000310_38.0425.C16.o6.ts	Method	TBLASTX:Soybean
Start	158	End	307
GI	none	Score	245
Exons	158..307, 159..299, 160..306		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o1.ts	Method	TBLASTX:Soybean
Start	308	End	1042
GI	none	Score	43
Exons	308..334, 335..358, 472..597, 482..613, 668..952, 681..950,	477..596, 683..967,	481..597, 482..598, 846..959, 1025..1042

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o3.tm	Method	TBLASTX:Maize
Start	761	End	913
GI	none	Score	195
Exons	761..913, 761..913		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o3.tc	Method	TBLASTX:Cress
Start	833	End	1729
GI	none	Score	119
Exons	833..952, 848..952, 865..966, 1045..1161, 1532..1726, 1539..1727, 1539..1727, 1540..1728, 1550..1729	1021..1161,	1026..1124,

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o1.tm	Method	TBLASTX:Maize
Start	914	End	4915
GI	none	Score	49
Exons	914..952, 918..950, 1021..1161, 1026..1124, 1042..1161, 1536..1733, 1539..1733, 1540..1740, 1813..1911, 1813..1911, 2177..2392, 2179..2397, 2187..2312, 2201..2392, 2513..2584, 2517..2579, 2648..2839, 2648..2833, 3122..3220, 3126..3221, 3127..3222, 3128..3226, 3260..3583, 3293..3535, 3304..3627, 3307..3597, 3601..3696, 3630..3698, 3630..3701, 3631..3702, 3819..4010, 3839..4009, 3850..4011, 4090..4296, 4092..4295, 4138..4296, 4405..4725, 4421..4726, 4424..4726, 4428..4739, 4429..4734, 4784..4915, 4786..4902, 4841..4915		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o3.ts	Method	TBLASTX:Soybean
Start	1536	End	2707
GI	none	Score	297
Exons	1536..1733, 1540..1740, 1543..1734, 1813..1911, 1813..1908, 1815..1910, 2176..2397, 2201..2392, 2513..2575, 2517..2579, 2644..2703, 2648..2707, 2648..2707		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o5.tc	Method	TBLASTX:Cress
Start	1813	End	2338
GI	none	Score	153
Exons	1813..1911, 1813..1908, 1814..1909, 2176..2337, 2201..2338		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o4.ts	Method	TBLASTX:Soybean
Start	2708	End	3711
GI	none	Score	198
Exons	2708..2839, 2710..2832, 3118..3174, 3131..3175, 3175..3219, 3176..3226, 3299..3448, 3303..3449, 3307..3531, 3309..3527, 3489..3545, 3547..3702, 3631..3711		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o2.tc	Method	TBLASTX:Cress
Start	3463	End	4542
GI	none	Score	60
Exons	3463..3543, 3631..3672, 3664..3702, 3666..3701, 3822..4013, 3853..4020, 4090..4296, 4092..4295, 4138..4296, 4402..4542, 4424..4540		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o7.ts	Method	TBLASTX:Soybean
Start	3819	End	4020
GI	none	Score	117
Exons	3819..4013, 3822..4016, 3847..4020, 3850..4014		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o1.tw	Method	TBLASTX:Wheat
Start	3891	End	4624
GI	none	Score	191
Exons	3891..4013, 3892..4020, 4090..4296, 4092..4298, 4092..4295, 4138..4296, 4405..4623, 4424..4624		

Seq. No.	58160	Seq. ID	OJ000310_38 25.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o2.ts	Method	TBLASTX:Soybean
Start	4090	End	4735
GI	none	Score	275
Exons	4090..4296, 4101..4295, 4389..4595, 4391..4600, 4405..4722, 4424..4720, 4643..4735		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-

Start	5562	End	11257
Name	OJ000310_38.0425.C16.o4.tc	Method	TBLASTX:Cress
Start	4543	End	4726
GI	none	Score	222
Exons	4543..4722, 4544..4723, 4568..4726		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o2.tw	Method	TBLASTX:Wheat
Start	4624	End	4965
GI	none	Score	146
Exons	4624..4725, 4625..4726, 4811..4846, 4841..4888, 4841..4957, 4945..4965		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o2.gs	Method	GENSCAN
Start	5562	End	11153
GI	none	Score	.94
Exons	5562..6646, 8343..8424, 8502..8699, 8860..8948, 9126..9313, 10450..11153		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o2.gp	Method	AAT/GAP
Start	7351	End	8717
GI	57088_1.R1084	Score	1052
Exons	7351..7654, 8343..8424, 8502..8717		
GI Descrip.	'3123130/sp|O22212|YG62_ARATH 8.0e-48 HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II >gi_2618685 (AC002510) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana] >gi_3241948 (AC004625) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]'		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o2.np	Method	AAT/NAP
Start	7548	End	11257
GI	3123130	Score	1398
Exons	7548..7654, 8343..8424, 8502..8699, 8860..9313, 10450..11257		
GI Descrip.	HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II gi|2618685|gb|AAB84332.1| (AC002510) putative U4/U6 small nuclear ribonucleoprotein [Arabidopsis thaliana]		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o5.ts	Method	TBLASTX:Soybean
Start	8499	End	9351
GI	none	Score	155
Exons	8499..8699, 8500..8700, 8512..8703, 8550..8699, 8854..9150, 8857..9108, 8858..8962, 8962..9150, 9014..9097, 9160..9351, 9160..9294, 9160..9225		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o2.tm	Method	TBLASTX:Maize
Start	8550	End	10611
GI	none	Score	102
Exons	8550..8699, 8550..8690, 8623..8700, 8625..8699, 8857..9348, 8858..9316, 8911..9150, 9160..9294, 10445..10609, 10450..10611, 10452..10610		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o3.gp	Method	AAT/GAP
Start	8951	End	10519
GI	3763498	Score	630
Exons	8951..9049, 9083..9313, 10450..10519		
GI Descrip.	3123130/sp|O22212|YG62_ARATH 8.0e-48 HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II >gi_2618685 (AC002510) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana] >gi_3241948 (AC004625) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]		

Seq. No.	58160	Seq. ID	OJ000310_38.0425.C16
Gene No.	121572	Strand	-
Start	5562	End	11257
Name	OJ000310_38.0425.C16.o4.gp	Method	AAT/GAP
Start	10804	End	11254
GI	43056_1.R1084	Score	890
Exons	10804..11254		
GI Descrip.	'3123130/sp|O22212|YG62_ARATH 9.0e-15 HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II >gi_2618685 (AC002510) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana] >gi_3241948 (AC004625) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]'		

Seq. No.	58161	Seq. ID	OJ000310_38.0425.C19
Gene No.	121573	Strand	-
Start	1	End	1686
Name	OJ000310_38.0425.C19.o1.np	Method	AAT/NAP
Start	1	End	1686
GI	4584255	Score	667
Exons	1..88, 334..723, 1076..1182, 1593..1686		
GI Descrip.	(Y18471) SINA1p [Vitis vinifera]		

Seq. No.	58161	Seq. ID	OJ000310_38.0425.C19
Gene No.	121573	Strand	-
Start	1	End	1686
Name	OJ000310_38.0425.C19.o1.tm	Method	TBLASTX:Maize
Start	289	End	1129
GI	none	Score	398
Exons	289..726, 335..724, 1043..1129		

Seq. No.	58161	Seq. ID	OJ000310_38.0425.C19
Gene No.	121573	Strand	-
Start	1	End	1686

Name	OJ000310_38.0425.C19.o1.gs	Method	GENSCAN
Start	322	End	1299
GI	none	Score	.78
Exons	322..723, 1076..1299		

Seq. No.	58161	Seq. ID	OJ000310_38.0425.C19
Gene No.	121573	Strand	-
Start	1	End	1686
Name	OJ000310_38.0425.C19.o1.ts	Method	TBLASTX:Soybean
Start	324	End	736
GI	none	Score	96
Exons	324..503, 324..479, 334..729, 335..736		

Seq. No.	58161	Seq. ID	OJ000310_38.0425.C19
Gene No.	121573	Strand	-
Start	1	End	1686
Name	OJ000310_38.0425.C19.o1.tc	Method	TBLASTX:Cress
Start	391	End	676
GI	none	Score	83
Exons	391..675, 392..676, 394..675		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121574	Strand	+
Start	3127	End	3737
Name	OJ000310_38.0425.C20.o1.np	Method	AAT/NAP
Start	3127	End	3737
GI	4973022	Score	755
Exons	3127..3560, 3674..3737		
GI Descrip.	(AF141933) unknown [Oryza sativa]		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121575	Strand	+
Start	3819	End	3889
Name	OJ000310_38.0425.C20.o1.gp	Method	AAT/GAP
Start	3819	End	3889
GI	61430_1.R1084	Score	97
Exons	3819..3889		
GI Descrip.	'14394/emb|Z14060|MISCREPU4 0.0e+00 T.aestivum mitochondrion fMet, 18S, 5S repeat unit DNA'		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121576	Strand	+
Start	6733	End	8128
Name	OJ000310_38.0425.C20.o3.np	Method	AAT/NAP
Start	6733	End	8128
GI	2627238	Score	66
Exons	6733..6803, 8057..8128		
GI Descrip.	(D50565) NADH dehydrogenase subunit 5 [Oryza sativa] gi|2627240|dbj|BAA23492| (D50566) NADH dehydrogenase subunit 5 [Oryza sativa]		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o1.gs	Method	GENSCAN
Start	941	End	10320
GI	none	Score	.54

Exons 941..1044, 2891..3151, 4299..4531, 4584..4755, 6109..6205, 7127..7463, 8818..8899, 8967..9039, 9553..9595, 10202..10320

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o2.np	Method	AAT/NAP
Start	4291	End	4625
GI	7444451	Score	338
Exons	4291..4625		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o3.tm	Method	TBLASTX:Maize
Start	4310	End	4569
GI	none	Score	82
Exons	4310..4498, 4312..4569		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o2.tw	Method	TBLASTX:Wheat
Start	4330	End	4620
GI	none	Score	73
Exons	4330..4512, 4334..4486, 4528..4620		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o2.gp	Method	AAT/GAP
Start	5053	End	5259
GI	none	Score	284
Exons	5053..5259		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o5.np	Method	AAT/NAP
Start	5932	End	9725
GI	1352027	Score	108
Exons	5932..6031, 7998..8065, 8093..8203, 9695..9725		
GI Descrip.	ATP SYNTHASE ALPHA CHAIN gi|1361449|pir||D64244 H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - Mycoplasma genitalium gi|3844993|gb|AAC71629.1| (U39722) ATP synthase F1, subunit alpha (atpA) [Mycoplasma genitalium]		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o3.gp	Method	AAT/GAP
Start	7264	End	7395
GI	306_9.R1084	Score	176
Exons	7264..7395		

GI Descrip. '287391/dbj|D13111|RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o2.tm	Method	TBLASTX:Maize
Start	7282	End	7405
GI	none	Score	192
Exons	7282..7386, 7283..7405, 7283..7405		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o4.np	Method	AAT/NAP
Start	7780	End	8024
GI	82538	Score	328
Exons	7780..8024		

GI Descrip. hypothetical 9K protein (rps19-rpl2 intergenic region) - rice chloroplast gi|12028|emb|CAA33936| (X15901) ORF82 [Oryza sativa] gi|12074|emb|CAA33926| (X15901) ORF82 [Oryza sativa] gi|226650|prf||1603356CA ORF 82 [Oryza sativa]

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o4.gp	Method	AAT/GAP
Start	7794	End	7880
GI	3073_1.R1084	Score	149
Exons	7794..7880		

GI Descrip. '133936/sp|P12146|RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir__R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf__1603356BW ribosomal protein S3 [Oryza sativa]'

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o1.tw	Method	TBLASTX:Wheat
Start	9199	End	9490
GI	none	Score	46
Exons	9199..9231, 9200..9232, 9204..9233, 9208..9282, 9226..9261, 9232..9318, 9233..9307, 9242..9328, 9294..9482, 9302..9490, 9339..9482		

Seq. No.	58162	Seq. ID	OJ000310_38.0425.C20
Gene No.	121577	Strand	-
Start	941	End	10320
Name	OJ000310_38.0425.C20.o1.tm	Method	TBLASTX:Maize
Start	9226	End	9490
GI	none	Score	52
Exons	9226..9288, 9232..9261, 9251..9313, 9259..9282, 9294..9317, 9315..9467, 9317..9451, 9339..9458, 9448..9489, 9449..9490		

Seq. No.	58163	Seq. ID	OJ000310_38.0425.C21
Gene No.	121578	Strand	+

Start	1	End	3253
Name	OJ000310_38.0425.C21.o1.np	Method	AAT/NAP
Start	1	End	3253
GI	133416	Score	298
Exons	1..249, 1090..1164, 3195..3253		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA CHAIN gi|66970|pir||RNRZB DNA-directed RNA polymerase (EC 2.7.7.6) beta chain - rice chloroplast gi|11971|emb|CAA33986| (X15901) RNA polymerase beta subunit [Oryza sativa]		

Seq. No.	58163	Seq. ID	OJ000310_38.0425.C21
Gene No.	121579	Strand	-
Start	136	End	5720
Name	OJ000310_38.0425.C21.o1.gs	Method	GENSCAN
Start	136	End	5720
GI	none	Score	.8
Exons	136..232, 917..1027, 1316..1421, 2607..2734, 3464..3658, 4376..4549, 4646..4774, 4917..5120, 5237..5351, 5538..5720		

Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121580	Strand	+
Start	4006	End	4284
Name	OJ000310_38.0425.C22.o1.gp	Method	AAT/GAP
Start	4006	End	4284
GI	uC-osroM202017c07a1	Score	558
Exons	4006..4284		
GI Descrip.	'3123130/sp|O22212|YG62_ARATH 8.0e-48 HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II >gi_2618685 (AC002510) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana] >gi_3241948 (AC004625) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]'		

Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121581	Strand	+
Start	11394	End	13702
Name	OJ000310_38.0425.C22.o2.np	Method	AAT/NAP
Start	11382	End	13702
GI	3894197	Score	831
Exons	11382..11663, 11848..11954, 13010..13118, 13202..13363, 13503..13702		
GI Descrip.	(AC005662) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121581	Strand	+
Start	11394	End	13702
Name	OJ000310_38.0425.C22.o3.gs	Method	GENSCAN
Start	11394	End	13675
GI	none	Score	.77
Exons	11394..11497, 11537..11663, 11848..11954, 13010..13118, 13202..13363, 13503..13675		

Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121582	Strand	-
Start	518	End	2558
Name	OJ000310_38.0425.C22.o1.gs	Method	GENSCAN
Start	518	End	2558
GI	none	Score	.56

Exons	518..636, 667..813, 1922..2037, 2397..2558		
Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121583	Strand	-
Start	4204	End	8180
Name	OJ000310_38.0425.C22.o2.gs	Method	GENSCAN
Start	4204	End	8180
GI	none	Score	.55
Exons	4204..4316, 4714..4777, 5243..5364, 6259..6388, 6900..7089, 7786..8180		
Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121583	Strand	-
Start	4204	End	8180
Name	OJ000310_38.0425.C22.o1.np	Method	AAT/NAP
Start	4225	End	6970
GI	6911879	Score	442
Exons	4225..4316, 4714..4777, 5243..5364, 6259..6388, 6878..6970		
GI Descrip.	(AL138655) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121583	Strand	-
Start	4204	End	8180
Name	OJ000310_38.0425.C22.o2.tm	Method	TBLASTX:Maize
Start	4226	End	6977
GI	none	Score	84
Exons	4226..4318, 4255..4317, 4715..4783, 5224..5367, 5240..5371, 5244..5369, 6254..6337, 6259..6387, 6264..6389, 6878..6973, 6879..6977		
Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121583	Strand	-
Start	4204	End	8180
Name	OJ000310_38.0425.C22.o2.gp	Method	AAT/GAP
Start	4714	End	7018
GI	none	Score	811
Exons	4714..4777, 5243..5364, 6259..6388, 6878..7018		
Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121584	Strand	
Start	11541	End	13686
Name	OJ000310_38.0425.C22.o1.ts	Method	TBLASTX:Soybean
Start	11541	End	13366
GI	none	Score	143
Exons	11541..11663, 11588..11659, 11794..11940, 11835..11960, 11836..11955, 13001..13069, 13005..13118, 13007..13120, 13011..13118, 13012..13122, 13202..13366, 13216..13365		
Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121584	Strand	
Start	11541	End	13686
Name	OJ000310_38.0425.C22.o1.tc	Method	TBLASTX:Cress
Start	11547	End	13276
GI	none	Score	156
Exons	11547..11663, 11576..11659, 11835..11960, 11836..11955, 13005..13118, 13007..13069, 13011..13118, 13201..13272, 13202..13276		

Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121584	Strand	
Start	11541	End	13686
Name	OJ000310_38.0425.C22.o1.tm	Method	TBLASTX:Maize
Start	11875	End	13686
GI	none	Score	140
Exons	11875..11955, 11875..11955, 11877..11978, 13001..13117, 13005..13118, 13007..13120, 13008..13118, 13009..13119, 13187..13363, 13198..13365, 13200..13364, 13202..13366, 13500..13601, 13502..13618, 13502..13600, 13600..13677, 13600..13686, 13601..13678		

Seq. No.	58164	Seq. ID	OJ000310_38.0425.C22
Gene No.	121584	Strand	
Start	11541	End	13686
Name	OJ000310_38.0425.C22.o2.ts	Method	TBLASTX:Soybean
Start	13500	End	13679
GI	none	Score	150
Exons	13500..13601, 13502..13600, 13584..13676, 13600..13677, 13601..13678, 13601..13678, 13602..13679		

Seq. No.	58165	Seq. ID	OJ000310_38.0425.C23
Gene No.	121585	Strand	+
Start	1	End	1132
Name	OJ000310_38.0425.C23.o1.np	Method	AAT/NAP
Start	1	End	1132
GI	7340884	Score	85
Exons	1..149, 459..506, 1082..1132		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	58165	Seq. ID	OJ000310_38.0425.C23
Gene No.	121586	Strand	-
Start	404	End	577
Name	OJ000310_38.0425.C23.o1.gs	Method	GENSCAN
Start	404	End	577
GI	none	Score	.81
Exons	404..577		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o1.gs	Method	GENSCAN
Start	2010	End	4977
GI	none	Score	.48
Exons	2010..2809, 2833..3174, 4138..4297, 4397..4513, 4609..4802, 4898..4977		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o1.np	Method	AAT/NAP
Start	2103	End	4986
GI	6648208	Score	1715
Exons	2103..2926, 2966..3174, 3875..4039, 4138..4303, 4397..4513, 4609..4802, 4898..4986		

GI Descrip. (AC013483) putative phosphatidylinositol-4-phosphate 5-kinase [Arabidopsis thaliana]

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o2.tm	Method	TBLASTX:Maize
Start	2177	End	2696
GI	none	Score	285
Exons	2177..2362, 2178..2585, 2183..2362, 2186..2359, 2247..2618, 2252..2365, 2385..2696, 2429..2599, 2438..2587, 2438..2515, 2448..2615, 2459..2593, 2459..2590		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o2.ts	Method	TBLASTX:Soybean
Start	2177	End	2717
GI	none	Score	377
Exons	2177..2311, 2178..2585, 2180..2359, 2183..2359, 2238..2615, 2325..2690, 2426..2590, 2438..2584, 2444..2584, 2445..2696, 2583..2717		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o1.tc	Method	TBLASTX:Cress
Start	2178	End	4976
GI	none	Score	96
Exons	2178..2282, 2180..2230, 2181..2231, 2183..2344, 2184..2558, 2187..2609, 2189..2359, 2189..2356, 2216..2359, 2232..2696, 2358..2696, 2417..2596, 2435..2596, 2438..2599, 3101..3175, 3872..4036, 3873..4040, 3927..4037, 4136..4327, 4142..4306, 4150..4311, 4357..4497, 4364..4513, 4394..4507, 4611..4769, 4624..4803, 4896..4976, 4910..4972		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o1.tw	Method	TBLASTX:Wheat
Start	2183	End	2696
GI	none	Score	194
Exons	2183..2368, 2183..2368, 2184..2372, 2187..2579, 2204..2368, 2231..2365, 2232..2618, 2300..2368, 2301..2696, 2426..2596, 2435..2584, 2435..2578, 2438..2584, 2505..2696		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o1.ts	Method	TBLASTX:Soybean
Start	3876	End	4435
GI	none	Score	204
Exons	3876..4040, 3881..4036, 4136..4327, 4150..4308, 4172..4309, 4394..4435		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+

Start	2010	End	4986
Name	OJ000310_38.0425.C25.o3.tm	Method	TBLASTX:Maize
Start	3909	End	4279
GI	none	Score	130
Exons	3909..4040, 3945..4040, 3958..4041, 4136..4279, 4144..4278		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o1.tm	Method	TBLASTX:Maize
Start	4280	End	4976
GI	none	Score	36
Exons	4280..4312, 4377..4484, 4394..4513, 4394..4507, 4396..4509, 4606..4800, 4607..4801, 4608..4802, 4608..4802, 4624..4803, 4895..4975, 4896..4976		

Seq. No.	58166	Seq. ID	OJ000310_38.0425.C25
Gene No.	121587	Strand	+
Start	2010	End	4986
Name	OJ000310_38.0425.C25.o3.ts	Method	TBLASTX:Soybean
Start	4597	End	4973
GI	none	Score	222
Exons	4597..4803, 4624..4794, 4899..4973, 4907..4972		

Seq. No.	58167	Seq. ID	OJ000310_38.0425.C26
Gene No.	121588	Strand	+
Start	327	End	626
Name	OJ000310_38.0425.C26.o1.np	Method	AAT/NAP
Start	327	End	614
GI	7488008	Score	306
Exons	327..614		
GI Descrip.	phosphatidylinositol-4-phosphate 5-kinase homolog T3K9.2 - Arabidopsis thaliana gi|6598479|gb|AAC78530.2| (AC005662) putative phosphatidylinositol-4-phosphate 5-kinase [Arabidopsis thaliana]		

Seq. No.	58167	Seq. ID	OJ000310_38.0425.C26
Gene No.	121588	Strand	+
Start	327	End	626
Name	OJ000310_38.0425.C26.o1.tw	Method	TBLASTX:Wheat
Start	332	End	562
GI	none	Score	44
Exons	332..400, 333..407, 399..560, 405..554, 412..561, 413..562		

Seq. No.	58167	Seq. ID	OJ000310_38.0425.C26
Gene No.	121588	Strand	+
Start	327	End	626
Name	OJ000310_38.0425.C26.o1.ts	Method	TBLASTX:Soybean
Start	344	End	604
GI	none	Score	204
Exons	344..400, 437..601, 438..602, 455..604		

Seq. No.	58167	Seq. ID	OJ000310_38.0425.C26
Gene No.	121588	Strand	+
Start	327	End	626
Name	OJ000310_38.0425.C26.o1.tm	Method	TBLASTX:Maize
Start	354	End	610

GI	none	Score	62
Exons	354..407, 408..608, 413..610, 419..610		
Seq. No.	58167	Seq. ID	OJ000310_38.0425.C26
Gene No.	121588	Strand	+
Start	327	End	626
Name	OJ000310_38.0425.C26.o1.gs	Method	GENSCAN
Start	363	End	626
GI	none	Score	.91
Exons	363..626		
Seq. No.	58167	Seq. ID	OJ000310_38.0425.C26
Gene No.	121588	Strand	+
Start	327	End	626
Name	OJ000310_38.0425.C26.o1.tc	Method	TBLASTX:Cress
Start	425	End	611
GI	none	Score	224
Exons	425..610, 426..611		
Seq. No.	58168	Seq. ID	OJ000310_38.0425.C28
Gene No.	121589	Strand	+
Start	373	End	527
Name	OJ000310_38.0425.C28.o1.gs	Method	GENSCAN
Start	373	End	527
GI	none	Score	.79
Exons	373..527		
Seq. No.	58168	Seq. ID	OJ000310_38.0425.C28
Gene No.	121590	Strand	-
Start	1178	End	1275
Name	OJ000310_38.0425.C28.o2.gs	Method	GENSCAN
Start	1178	End	1275
GI	none	Score	.83
Exons	1178..1275		
Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121591	Strand	+
Start	1	End	2391
Name	OJ000310_38.0425.C29.o1.np	Method	AAT/NAP
Start	1	End	2379
GI	6911866	Score	1251
Exons	1..31, 434..658, 756..921, 1014..1130, 1251..1444, 1527..1658, 1727..1775, 2077..2379		
GI Descrip.	(AL138655) phosphatidylinositol-4-phosphate 5-kinase-like protein [Arabidopsis thaliana]		
Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121591	Strand	+
Start	1	End	2391
Name	OJ000310_38.0425.C29.o1.gs	Method	GENSCAN
Start	69	End	2391
GI	none	Score	.75
Exons	69..71, 820..921, 1014..1130, 1251..1444, 2094..2391		
Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268

Name	OJ000310_38.0425.C29.o1.tc	Method	TBLASTX:Cress
Start	476	End	2376
GI	none	Score	71
Exons	476..646, 484..552, 542..655, 546..659, 546..656, 754..924, 772..924, 1014..1130, 1019..1114, 1247..1411, 1248..1436, 1527..1613, 1528..1608, 2081..2137, 2190..2375, 2191..2376, 2194..2376		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o1.ts	Method	TBLASTX:Soybean
Start	542	End	2387
GI	none	Score	147
Exons	542..655, 546..659, 754..924, 754..924, 1014..1106, 1019..1096, 1244..1360, 1254..1349, 1359..1433, 1564..1620, 2101..2166, 2179..2382, 2193..2387, 2194..2367, 2199..2369		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o4.tm	Method	TBLASTX:Maize
Start	542	End	924
GI	none	Score	135
Exons	542..658, 552..659, 754..924, 772..921		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o1.tm	Method	TBLASTX:Maize
Start	1009	End	1762
GI	none	Score	196
Exons	1009..1122, 1010..1126, 1014..1130, 1245..1415, 1247..1450, 1248..1439, 1249..1440, 1250..1474, 1526..1609, 1527..1634, 1528..1635, 1691..1762		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o1.tw	Method	TBLASTX:Wheat
Start	1517	End	2326
GI	none	Score	109
Exons	1517..1618, 1528..1623, 1530..1613, 1696..1749, 1703..1753, 1739..1780, 1739..1789, 2089..2325, 2089..2325, 2090..2326		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o2.tm	Method	TBLASTX:Maize
Start	2113	End	2375
GI	none	Score	403
Exons	2113..2373, 2113..2373, 2118..2375		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o2.gs	Method	GENSCAN

Start	4180	End	10809
GI	none	Score	.49
Exons	4180..4333, 4946..5156, 5699..5940, 5945..6081, 6166..6303, 6431..6559, 7636..7824, 8185..8251, 8588..8757, 10003..10063, 10760..10809		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o3.np	Method	AAT/NAP
Start	4954	End	10090
GI	7485968	Score	132
Exons	4954..5012, 5769..5851, 8580..8757, 9851..9934, 10003..10090		
GI Descrip.	hypothetical protein F22K18.220 - Arabidopsis thaliana gi|4220532|emb|CAA23005.1| (AL035356) putative protein [Arabidopsis thaliana] gi|7269308|emb|CAB79368.1| (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o2.np	Method	AAT/NAP
Start	5604	End	6889
GI	7438344	Score	209
Exons	5604..5765, 5866..6313, 6774..6889		
GI Descrip.	myb-related protein 1 - rice gi|2605617|dbj|BAA23337.1| (D88617) OSMYB1 [Oryza sativa]		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o3.ts	Method	TBLASTX:Soybean
Start	6010	End	6315
GI	none	Score	111
Exons	6010..6072, 6165..6221, 6220..6315		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o3.tm	Method	TBLASTX:Maize
Start	7257	End	7797
GI	none	Score	75
Exons	7257..7316, 7308..7457, 7330..7557, 7332..7484, 7390..7557, 7628..7783, 7636..7797		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o2.ts	Method	TBLASTX:Soybean
Start	7381	End	7548
GI	none	Score	76
Exons	7381..7548, 7421..7540		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o5.tm	Method	TBLASTX:Maize

Start	8175	End	11268
GI	none	Score	94
Exons	8175..8249, 8178..8249, 8183..8251, 8183..8251, 8185..8253, 8584..8718, 8587..8763, 8815..8937, 8830..8937, 8831..8944, 9848..9937, 9850..9936, 10002..10064, 10003..10062, 10754..10810, 10759..10812, 10996..11073, 10997..11074, 11075..11152, 11077..11154, 11127..11258, 11127..11261, 11158..11268, 11174..11260		

Seq. No.	58169	Seq. ID	OJ000310_38.0425.C29
Gene No.	121592	Strand	-
Start	4180	End	11268
Name	OJ000310_38.0425.C29.o4.ts	Method	TBLASTX:Soybean
Start	8686	End	10062
GI	5057448	Score	51
Exons	8686..8760, 8687..8779, 8690..8788, 8830..8934, 8831..8944, 8839..8934, 9847..9936, 9848..9937, 9851..9937, 10003..10062, 10003..10062		
GI Descrip.	4220532/emb_CAA23005_ 2.0e-11 (AL035356) putative protein [Arabidopsis thaliana]		

Seq. No.	58170	Seq. ID	OJ000310_38.0425.C30
Gene No.	121593	Strand	-
Start	637	End	1411
Name	OJ000310_38.0425.C30.o1.ts	Method	TBLASTX:Soybean
Start	627	End	844
GI	none	Score	86
Exons	627..725, 635..691, 637..729, 715..843, 717..767, 761..844		

Seq. No.	58170	Seq. ID	OJ000310_38.0425.C30
Gene No.	121593	Strand	-
Start	637	End	1411
Name	OJ000310_38.0425.C30.o1.tm	Method	TBLASTX:Maize
Start	631	End	1200
GI	none	Score	217
Exons	631..861, 636..764, 804..863, 1104..1199, 1104..1199, 1105..1200, 1108..1200		

Seq. No.	58170	Seq. ID	OJ000310_38.0425.C30
Gene No.	121593	Strand	-
Start	637	End	1411
Name	OJ000310_38.0425.C30.o1.gs	Method	GENSCAN
Start	637	End	1348
GI	none	Score	.67
Exons	637..864, 1105..1348		

Seq. No.	58170	Seq. ID	OJ000310_38.0425.C30
Gene No.	121593	Strand	-
Start	637	End	1411
Name	OJ000310_38.0425.C30.o1.np	Method	AAT/NAP
Start	657	End	1411
GI	7485968	Score	263
Exons	657..864, 1079..1411		
GI Descrip.	hypothetical protein F22K18.220 - Arabidopsis thaliana gi|4220532|emb|CAA23005.1| (AL035356) putative protein [Arabidopsis thaliana] gi|7269308|emb|CAB79368.1| (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	58170	Seq. ID	OJ000310_38.0425.C30
Gene No.	121593	Strand	-
Start	637	End	1411
Name	OJ000310_38.0425.C30.o1.tc	Method	TBLASTX:Cress
Start	1104	End	1377
GI	none	Score	56
Exons	1104..1199, 1105..1221, 1132..1215, 1222..1377, 1241..1348		

Seq. No.	58170	Seq. ID	OJ000310_38.0425.C30
Gene No.	121593	Strand	-
Start	637	End	1411
Name	OJ000310_38.0425.C30.o2.tm	Method	TBLASTX:Maize
Start	1201	End	1378
GI	none	Score	161
Exons	1201..1377, 1203..1349, 1204..1377, 1241..1378		

Seq. No.	58171	Seq. ID	OJ000310_38.0425.C31
Gene No.	121594	Strand	-
Start	1	End	1000
Name	OJ000310_38.0425.C31.o1.np	Method	AAT/NAP
Start	1	End	1000
GI	7485968	Score	287
Exons	1..27, 103..145, 464..541, 647..766, 862..1000		
GI Descrip.	hypothetical protein F22K18.220 - Arabidopsis thaliana gi|4220532|emb|CAA23005.1| (AL035356) putative protein [Arabidopsis thaliana] gi|7269308|emb|CAB79368.1| (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	58171	Seq. ID	OJ000310_38.0425.C31
Gene No.	121594	Strand	-
Start	1	End	1000
Name	OJ000310_38.0425.C31.o1.tm	Method	TBLASTX:Maize
Start	52	End	765
GI	none	Score	118
Exons	52..177, 105..182, 261..326, 262..327, 456..542, 457..543, 645..764, 646..765		

Seq. No.	58171	Seq. ID	OJ000310_38.0425.C31
Gene No.	121594	Strand	-
Start	1	End	1000
Name	OJ000310_38.0425.C31.o1.gs	Method	GENSCAN
Start	107	End	766
GI	none	Score	.95
Exons	107..176, 270..325, 464..541, 647..766		

Seq. No.	58171	Seq. ID	OJ000310_38.0425.C31
Gene No.	121594	Strand	-
Start	1	End	1000
Name	OJ000310_38.0425.C31.o1.ts	Method	TBLASTX:Soybean
Start	660	End	1000
GI	none	Score	100
Exons	660..764, 661..765, 661..765, 863..1000, 869..934, 925..999		

Seq. No.	58172	Seq. ID	OJ000310_38.0425.C32
Gene No.	121595	Strand	+
Start	719	End	1591

Name	OJ000310_38.0425.C32.o1.gs	Method	GENSCAN
Start	719	End	1591
GI	none	Score	.48
Exons	719..865, 1226..1591		

Seq. No.	58173	Seq. ID	OJ000310_38.0425.C34
Gene No.	121596	Strand	+
Start	431	End	1578
Name	OJ000310_38.0425.C34.o1.gs	Method	GENSCAN
Start	431	End	1578
GI	none	Score	.86
Exons	431..1064, 1418..1578		

Seq. No.	58173	Seq. ID	OJ000310_38.0425.C34
Gene No.	121597	Strand	-
Start	1821	End	1902
Name	OJ000310_38.0425.C34.o1.gp	Method	AAT/GAP
Start	1821	End	1902
GI	38012_1.R1084	Score	101
Exons	1821..1902		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	58174	Seq. ID	OJ000310_38.0425.C35
Gene No.	121598	Strand	-
Start	247	End	450
Name	OJ000310_38.0425.C35.o1.gs	Method	GENSCAN
Start	247	End	450
GI	none	Score	.76
Exons	247..450		

Seq. No.	58175	Seq. ID	OJ000310_38.0425.C36
Gene No.	121599	Strand	+
Start	509	End	963
Name	OJ000310_38.0425.C36.o1.gs	Method	GENSCAN
Start	509	End	963
GI	none	Score	.49
Exons	509..555, 596..635, 805..963		

Seq. No.	58176	Seq. ID	OJ000310_38.0425.C37
Gene No.	121600	Strand	+
Start	92	End	535
Name	OJ000310_38.0425.C37.o1.gs	Method	GENSCAN
Start	92	End	535
GI	none	Score	.86
Exons	92..535		

Seq. No.	58176	Seq. ID	OJ000310_38.0425.C37
Gene No.	121601	Strand	-
Start	1412	End	1513
Name	OJ000310_38.0425.C37.o2.gs	Method	GENSCAN
Start	1412	End	1513
GI	none	Score	.73
Exons	1412..1468, 1473..1513		

Seq. No.	58177	Seq. ID	OJ000310_38.0425.C38
Gene No.	121602	Strand	-

Start	1294	End	1401
Name	OJ000310_38.0425.C38.o1.gs	Method	GENSCAN
Start	1294	End	1401
GI	none	Score	.72
Exons	1294..1401		

Seq. No.	58177	Seq. ID	OJ000310_38.0425.C38
Gene No.	121603	Strand	-
Start	1348	End	1403
Name	OJ000310_38.0425.C38.o1.np	Method	AAT/NAP
Start	1348	End	1403
GI	5042454	Score	73
Exons	1348..1403		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121605	Strand	+
Start	1108	End	4248
Name	OJ000310_38.0425.C39.o1.gs	Method	GENSCAN
Start	1108	End	4248
GI	none	Score	.7
Exons	1108..2172, 2259..2368, 2463..3270, 3328..4248		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121605	Strand	+
Start	1108	End	4248
Name	OJ000310_38.0425.C39.o1.np	Method	AAT/NAP
Start	1108	End	4245
GI	7228456	Score	4457
Exons	1108..4245		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121606	Strand	+
Start	11016	End	12288
Name	OJ000310_38.0425.C39.o4.np	Method	AAT/NAP
Start	11016	End	12288
GI	7523512	Score	170
Exons	11016..11050, 12166..12288		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o7.tw	Method	TBLASTX:Wheat
Start	2123	End	5483
GI	none	Score	77
Exons	2123..2224, 4881..5006, 4885..5007, 5173..5481, 5193..5483, 5200..5478		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o2.gs	Method	GENSCAN
Start	4869	End	12827
GI	none	Score	.4
Exons	4869..6389, 6487..8595, 8659..10909, 11615..11739, 11884..11956,		

12713..12827

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o5.tm	Method	TBLASTX:Maize
Start	4869	End	5012
GI	none	Score	126
Exons	4869..5012, 4873..5007		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o2.np	Method	AAT/NAP
Start	4872	End	11018
GI	7228457	Score	9594
Exons	4872..6422, 6487..7638, 7761..8595, 8659..10591, 10653..11018		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o3.tw	Method	TBLASTX:Wheat
Start	5484	End	5865
GI	none	Score	173
Exons	5484..5864, 5515..5763, 5523..5861, 5809..5865		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o2.tm	Method	TBLASTX:Maize
Start	5670	End	6002
GI	none	Score	97
Exons	5670..5882, 5679..6002, 5692..5985		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o4.tw	Method	TBLASTX:Wheat
Start	6508	End	9965
GI	none	Score	86
Exons	6508..6657, 6509..6646, 6691..6942, 6692..6877, 6745..6966, 9912..9965		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o1.ts	Method	TBLASTX:Soybean
Start	7567	End	7938
GI	none	Score	90
Exons	7567..7938, 7778..7921		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827

Name	OJ000310_38.0425.C39.o2.tw	Method	TBLASTX:Wheat
Start	7597	End	8860
GI	none	Score	304
Exons	7597..8016, 7604..8017, 8801..8860		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o3.tm	Method	TBLASTX:Maize
Start	7690	End	8074
GI	none	Score	230
Exons	7690..8073, 7709..8074		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o1.tm	Method	TBLASTX:Maize
Start	8101	End	8457
GI	none	Score	124
Exons	8101..8406, 8101..8457, 8111..8422		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o1.tw	Method	TBLASTX:Wheat
Start	8125	End	8588
GI	none	Score	202
Exons	8125..8586, 8131..8586, 8132..8587, 8145..8588		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o2.ts	Method	TBLASTX:Soybean
Start	8182	End	8547
GI	none	Score	120
Exons	8182..8316, 8323..8547		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o5.tw	Method	TBLASTX:Wheat
Start	8866	End	9238
GI	none	Score	128
Exons	8866..9237, 8876..9043, 9101..9238		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o6.tw	Method	TBLASTX:Wheat
Start	9973	End	10525
GI	none	Score	95
Exons	9973..10230, 10007..10246, 10213..10311, 10214..10306, 10318..10365, 10490..10525		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827

Name	OJ000310_38.0425.C39.o4.tm	Method	TBLASTX:Maize
Start	10075	End	10323
GI	none	Score	91
Exons	10075..10323, 10076..10321		

Seq. No.	58178	Seq. ID	OJ000310_38.0425.C39
Gene No.	121607	Strand	-
Start	4869	End	12827
Name	OJ000310_38.0425.C39.o3.np	Method	AAT/NAP
Start	11247	End	11867
GI	5042454	Score	170
Exons	11247..11307, 11703..11867		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58179	Seq. ID	OJ000310_38.0425.C40
Gene No.	121608	Strand	+
Start	435	End	2215
Name	OJ000310_38.0425.C40.o1.gs	Method	GENSCAN
Start	435	End	2215
GI	none	Score	.85
Exons	435..476, 2066..2215		

Seq. No.	58179	Seq. ID	OJ000310_38.0425.C40
Gene No.	121609	Strand	+
Start	2673	End	5626
Name	OJ000310_38.0425.C40.o2.gs	Method	GENSCAN
Start	2673	End	5626
GI	none	Score	.57
Exons	2673..3371, 3561..3629, 4941..5022, 5436..5626		

Seq. No.	58180	Seq. ID	OJ000310_38.0425.C41
Gene No.	121610	Strand	+
Start	131	End	2796
Name	OJ000310_38.0425.C41.o1.gs	Method	GENSCAN
Start	131	End	2796
GI	none	Score	.45
Exons	131..315, 630..763, 990..1061, 2693..2796		

Seq. No.	58181	Seq. ID	OJ000330_38.0420.C1
Gene No.	121611	Strand	+
Start	285	End	2439
Name	OJ000330_38.0420.C1.o1.gs	Method	GENSCAN
Start	285	End	2439
GI	none	Score	.53
Exons	285..378, 1325..1435, 2246..2439		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121612	Strand	+
Start	4691	End	8412
Name	OJ000330_38.0420.C2.o2.np	Method	AAT/NAP
Start	4691	End	8412
GI	188864	Score	219
Exons	4691..4802, 5372..6085, 6216..6300, 6462..6567, 8394..8412		
GI Descrip.	(M74027) mucin [Homo sapiens]		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121612	Strand	+

Start	4691	End	8412
Name	OJ000330_38.0420.C2.o2.gp	Method	AAT/GAP
Start	5293	End	5819
GI	uC-osroM202030f09a1	Score	954
Exons	5293..5819		
GI Descrip.	'3980397 9.0e-34 (AC004561) putative protein phosphatase 2C [Arabidopsis thaliana]'		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o1.gp	Method	AAT/GAP
Start	4687	End	5180
GI	61499_1.R1084	Score	913
Exons	4687..5180		
GI Descrip.	'3980397 5.0e-17 (AC004561) putative protein phosphatase 2C [Arabidopsis thaliana]'		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o1.tc	Method	TBLASTX:Cress
Start	4816	End	5800
GI	none	Score	75
Exons	4816..4914, 4963..5052, 4970..5062, 5018..5296, 5071..5484, 5116..5313, 5363..5464, 5467..5502, 5515..5562, 5617..5691, 5618..5692, 5734..5799, 5750..5800		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o2.gs	Method	GENSCAN
Start	4948	End	5766
GI	none	Score	.92
Exons	4948..5766		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o1.np	Method	AAT/NAP
Start	4963	End	6039
GI	3980397	Score	800
Exons	4963..6039		
GI Descrip.	(AC004561) putative protein phosphatase 2C [Arabidopsis thaliana]		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o1.ts	Method	TBLASTX:Soybean
Start	4963	End	5493
GI	none	Score	60
Exons	4963..5067, 4970..5068, 5071..5493, 5075..5293, 5119..5304, 5363..5455		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-

Start	4948	End	7802
Name	OJ000330_38.0420.C2.o1.tm	Method	TBLASTX:Maize
Start	5071	End	5400
GI	none	Score	270
Exons	5071..5400, 5072..5395		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o1.tw	Method	TBLASTX:Wheat
Start	5071	End	5400
GI	none	Score	261
Exons	5071..5400, 5072..5395		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o2.tm	Method	TBLASTX:Maize
Start	5617	End	7802
GI	none	Score	133
Exons	5617..5724, 5618..5767, 5713..5829, 5714..5830, 7519..7602, 7704..7802		

Seq. No.	58182	Seq. ID	OJ000330_38.0420.C2
Gene No.	121613	Strand	-
Start	4948	End	7802
Name	OJ000330_38.0420.C2.o3.gp	Method	AAT/GAP
Start	5819	End	6092
GI	none	Score	548
Exons	5819..6092		

Seq. No.	58183	Seq. ID	OJ000330_38.0420.C6
Gene No.	121614	Strand	-
Start	1	End	870
Name	OJ000330_38.0420.C6.o1.np	Method	AAT/NAP
Start	1	End	870
GI	4680204	Score	437
Exons	1..870		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	58183	Seq. ID	OJ000330_38.0420.C6
Gene No.	121614	Strand	-
Start	1	End	870
Name	OJ000330_38.0420.C6.o1.tw	Method	TBLASTX:Wheat
Start	5	End	245
GI	none	Score	103
Exons	5..244, 12..245		

Seq. No.	58184	Seq. ID	OJ000330_38.0420.C7
Gene No.	121615	Strand	-
Start	1	End	1222
Name	OJ000330_38.0420.C7.o1.np	Method	AAT/NAP
Start	1	End	1222
GI	6742729	Score	1481
Exons	1..34, 251..1222		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	58184	Seq. ID	OJ000330_38.0420.C7
Gene No.	121615	Strand	-
Start	1	End	1222
Name	OJ000330_38.0420.C7.o1.gs	Method	GENSCAN
Start	280	End	1125
GI	none	Score	.7
Exons	280..1125		

Seq. No.	58184	Seq. ID	OJ000330_38.0420.C7
Gene No.	121615	Strand	-
Start	1	End	1222
Name	OJ000330_38.0420.C7.o2.tw	Method	TBLASTX:Wheat
Start	283	End	565
GI	none	Score	267
Exons	283..564, 284..565		

Seq. No.	58184	Seq. ID	OJ000330_38.0420.C7
Gene No.	121615	Strand	-
Start	1	End	1222
Name	OJ000330_38.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	289	End	561
GI	none	Score	109
Exons	289..561, 290..550		

Seq. No.	58184	Seq. ID	OJ000330_38.0420.C7
Gene No.	121615	Strand	-
Start	1	End	1222
Name	OJ000330_38.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	566	End	1015
GI	none	Score	108
Exons	566..691, 568..690, 724..966, 770..946, 952..1014, 965..1015		

Seq. No.	58185	Seq. ID	OJ000330_38.0420.C10
Gene No.	121616	Strand	+
Start	1	End	3558
Name	OJ000330_38.0420.C10.o1.np	Method	AAT/NAP
Start	1	End	3558
GI	5852172	Score	130
Exons	1..110, 3382..3429, 3469..3558		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	58185	Seq. ID	OJ000330_38.0420.C10
Gene No.	121617	Strand	-
Start	3364	End	3667
Name	OJ000330_38.0420.C10.o1.gp	Method	AAT/GAP
Start	3364	End	3667
GI	427610	Score	412
Exons	3364..3417, 3457..3667		
GI Descrip.	5852172/emb|CAB55410.1| 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	58186	Seq. ID	OJ000330_38.0420.C12
Gene No.	121618	Strand	-
Start	186	End	730
Name	OJ000330_38.0420.C12.o1.gs	Method	GENSCAN
Start	186	End	730
GI	none	Score	.88

Exons	186..455, 527..730		
Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121619	Strand	+
Start	469	End	2756
Name	OJ000330_38.0420.C15.o1.gs	Method	GENSCAN
Start	469	End	2756
GI	none	Score	.9
Exons	469..602, 861..884, 1059..1295, 2324..2756		
Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121619	Strand	+
Start	469	End	2756
Name	OJ000330_38.0420.C15.o1.np	Method	AAT/NAP
Start	1075	End	2753
GI	7438432	Score	983
Exons	1075..1295, 2324..2753		
GI Descrip.	GTP-binding protein - garden pea gi|303742|dbj|BAA02112.1| (D12544) GTP-binding protein [Pisum sativum] gi|738936|prf||2001457D GTP-binding protein [Pisum sativum]		
Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o1.tc	Method	TBLASTX:Cress
Start	1071	End	2756
GI	none	Score	336
Exons	1071..1298, 1072..1296, 2315..2491, 2319..2645, 2321..2665, 2322..2666, 2708..2749, 2709..2756		
Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o2.tm	Method	TBLASTX:Maize
Start	1074	End	1298
GI	none	Score	371
Exons	1074..1298, 1075..1296, 1254..1298		
Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o2.tw	Method	TBLASTX:Wheat
Start	1078	End	1242
GI	none	Score	235
Exons	1078..1242, 1110..1229		
Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	1080	End	2793
GI	none	Score	350
Exons	1080..1298, 1081..1296, 2318..2497, 2321..2749, 2322..2762, 2334..2786, 2440..2793		
Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-

Start	4329	End	8075
Name	OJ000330_38.0420.C15.o1.tw	Method	TBLASTX:Wheat
Start	1243	End	2734
GI	none	Score	56
Exons	1243..1296, 2321..2491, 2321..2734, 2322..2732, 2323..2733		

Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o1.tm	Method	TBLASTX:Maize
Start	2357	End	2708
GI	none	Score	588
Exons	2357..2707, 2358..2708, 2361..2708		

Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o2.gs	Method	GENSCAN
Start	4329	End	8075
GI	none	Score	.69
Exons	4329..4964, 5048..5200, 6779..6868, 7661..7803, 7994..8075		

Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o3.tm	Method	TBLASTX:Maize
Start	4449	End	4598
GI	none	Score	108
Exons	4449..4598, 4450..4563, 4482..4568		

Seq. No.	58187	Seq. ID	OJ000330_38.0420.C15
Gene No.	121620	Strand	-
Start	4329	End	8075
Name	OJ000330_38.0420.C15.o2.ts	Method	TBLASTX:Soybean
Start	4491	End	5209
GI	none	Score	130
Exons	4491..4628, 4677..4802, 4842..4958, 5048..5209		

Seq. No.	58188	Seq. ID	OJ000330_38.0420.C16
Gene No.	121621	Strand	+
Start	1	End	365
Name	OJ000330_38.0420.C16.o1.gp	Method	AAT/GAP
Start	1	End	365
GI	none	Score	694
Exons	1..365		

Seq. No.	58188	Seq. ID	OJ000330_38.0420.C16
Gene No.	121621	Strand	+
Start	1	End	365
Name	OJ000330_38.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	206
GI	none	Score	298
Exons	1..192, 2..187, 3..206		

Seq. No.	58188	Seq. ID	OJ000330_38.0420.C16
Gene No.	121621	Strand	+
Start	1	End	365

Name	OJ000330_38.0420.C16.o1.ts	Method	TBLASTX:Soybean
Start	1	End	187
GI	none	Score	82
Exons	1..60, 2..61, 67..183, 68..187		

Seq. No.	58189	Seq. ID	OJ000330_38.0420.C18
Gene No.	121622	Strand	-
Start	319	End	1539
Name	OJ000330_38.0420.C18.o1.gs	Method	GENSCAN
Start	319	End	1474
GI	none	Score	.75
Exons	319..403, 932..1110, 1197..1305, 1389..1474		

Seq. No.	58189	Seq. ID	OJ000330_38.0420.C18
Gene No.	121622	Strand	-
Start	319	End	1539
Name	OJ000330_38.0420.C18.o1.gp	Method	AAT/GAP
Start	629	End	1254
GI	21459_2.R1084	Score	800
Exons	629..852, 932..1110, 1197..1254		
GI Descrip.	'4512653/gb|AAD21708.1| 5.0e-30 (AC007048) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58189	Seq. ID	OJ000330_38.0420.C18
Gene No.	121622	Strand	-
Start	319	End	1539
Name	OJ000330_38.0420.C18.o2.gp	Method	AAT/GAP
Start	711	End	1539
GI	21459_1.R1084	Score	779
Exons	711..746, 780..852, 932..1110, 1197..1305, 1389..1539		
GI Descrip.	'4512653/gb|AAD21708.1| 1.0e-100 (AC007048) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58189	Seq. ID	OJ000330_38.0420.C18
Gene No.	121622	Strand	-
Start	319	End	1539
Name	OJ000330_38.0420.C18.o1.tc	Method	TBLASTX:Cress
Start	756	End	1501
GI	none	Score	125
Exons	756..854, 910..1137, 921..1112, 931..1122, 1189..1305, 1197..1301, 1388..1501, 1389..1481		

Seq. No.	58189	Seq. ID	OJ000330_38.0420.C18
Gene No.	121622	Strand	-
Start	319	End	1539
Name	OJ000330_38.0420.C18.o1.tm	Method	TBLASTX:Maize
Start	780	End	1480
GI	none	Score	89
Exons	780..854, 784..861, 922..1113, 931..1131, 1067..1123, 1177..1305, 1197..1313, 1197..1313, 1369..1455, 1388..1480, 1389..1475		

Seq. No.	58189	Seq. ID	OJ000330_38.0420.C18
Gene No.	121622	Strand	-
Start	319	End	1539
Name	OJ000330_38.0420.C18.o1.ts	Method	TBLASTX:Soybean
Start	780	End	1501

GI	none	Score	52
Exons	780..854, 783..836, 796..861, 925..1113, 926..1111, 931..1122, 933..1142, 1177..1320, 1197..1301, 1388..1501, 1389..1475		

Seq. No.	58189	Seq. ID	OJ000330_38.0420.C18
Gene No.	121622	Strand	-
Start	319	End	1539
Name	OJ000330_38.0420.C18.o1.np	Method	AAT/NAP
Start	783	End	1539
GI	4512653	Score	560
Exons	783..852, 932..1110, 1197..1305, 1389..1539		
GI Descrip.	(AC007048) 26S proteasome regulatory subunit S2 [Arabidopsis thaliana]		

Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o1.gp	Method	AAT/GAP
Start	1	End	794
GI	12084_1.R1084	Score	626
Exons	1..100, 433..600, 692..794		
GI Descrip.	'3786006 4.0e-51 (AC005499) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o1.np	Method	AAT/NAP
Start	1	End	2613
GI	3786006	Score	837
Exons	1..100, 433..600, 692..928, 1235..1554, 2451..2613		
GI Descrip.	(AC005499) methylenetetrahydrofolate dehydrogenase [Arabidopsis thaliana]		

Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o1.tc	Method	TBLASTX:Cress
Start	14	End	1519
GI	none	Score	62
Exons	14..82, 15..83, 457..603, 464..613, 482..610, 692..937, 693..881, 797..928, 1238..1519, 1239..1514		

Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o1.ts	Method	TBLASTX:Soybean
Start	14	End	886
GI	none	Score	71
Exons	14..91, 15..83, 431..529, 433..564, 433..600, 443..604, 684..884, 692..886, 693..881, 787..885		

Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o1.tm	Method	TBLASTX:Maize
Start	14	End	928

GI	none	Score	117
Exons	14..103, 14..100, 431..517, 433..507, 475..603, 488..613, 692..928, 693..881, 778..915		
Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o1.gs	Method	GENSCAN
Start	17	End	2488
GI	none	Score	.87
Exons	17..100, 433..600, 692..928, 1235..1554, 2215..2488		
Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o2.ts	Method	TBLASTX:Soybean
Start	887	End	1546
GI	none	Score	116
Exons	887..937, 1235..1474, 1235..1546, 1236..1541		
Seq. No.	58190	Seq. ID	OJ000330_38.0420.C19
Gene No.	121623	Strand	-
Start	1	End	2613
Name	OJ000330_38.0420.C19.o2.tm	Method	TBLASTX:Maize
Start	1230	End	1568
GI	none	Score	197
Exons	1230..1568, 1235..1555		
Seq. No.	58191	Seq. ID	OJ000330_38.0420.C20
Gene No.	121624	Strand	+
Start	1	End	1541
Name	OJ000330_38.0420.C20.o1.gs	Method	GENSCAN
Start	1	End	1272
GI	none	Score	.88
Exons	1..901, 1088..1272		
Seq. No.	58191	Seq. ID	OJ000330_38.0420.C20
Gene No.	121624	Strand	+
Start	1	End	1541
Name	OJ000330_38.0420.C20.o1.tm	Method	TBLASTX:Maize
Start	1	End	1236
GI	none	Score	85
Exons	1..120, 25..399, 106..492, 159..305, 162..500, 199..585, 243..584, 291..686, 292..678, 385..771, 429..779, 478..864, 478..840, 522..872, 537..680, 571..933, 623..775, 736..933, 1066..1236, 1066..1236, 1078..1236, 1132..1179, 1158..1235		
Seq. No.	58191	Seq. ID	OJ000330_38.0420.C20
Gene No.	121624	Strand	+
Start	1	End	1541
Name	OJ000330_38.0420.C20.o1.np	Method	AAT/NAP
Start	1	End	1541
GI	4263522	Score	1266
Exons	1..1282, 1503..1541		
GI Descrip.	(AC004044) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58191	Seq. ID	OJ000330_38.0420.C20

Gene No.	121624	Strand	+
Start	1	End	1541
Name	OJ000330_38.0420.C20.o1.tc	Method	TBLASTX:Cress
Start	169	End	1281
GI	none	Score	116
Exons	169..390, 193..381, 214..483, 385..654, 402..557, 474..746, 571..852, 679..933, 682..858, 955..1263, 955..1236, 957..1109, 1111..1281, 1132..1236	292..576, 384..632, 385..555, 478..762, 499..687, 565..747, 724..840, 790..933, 817..933, 967..1044, 1021..1236,	

Seq. No.	58191	Seq. ID	OJ000330_38.0420.C20
Gene No.	121624	Strand	+
Start	1	End	1541
Name	OJ000330_38.0420.C20.o1.tw	Method	TBLASTX:Wheat
Start	169	End	1281
GI	none	Score	71
Exons	169..273, 231..392, 259..381, 396..500, 400..501, 418..552, 577..687, 604..747, 625..747, 719..877, 790..933, 844..951,	307..408, 324..446, 325..468, 493..594, 511..660, 516..632, 697..840, 717..830, 718..846, 970..1176, 1093..1281	

Seq. No.	58191	Seq. ID	OJ000330_38.0420.C20
Gene No.	121624	Strand	+
Start	1	End	1541
Name	OJ000330_38.0420.C20.o1.ts	Method	TBLASTX:Soybean
Start	220	End	1283
GI	none	Score	80
Exons	220..393, 291..488, 292..486, 679..858, 871..1281, 1109..1141,	385..555, 499..672, 571..747, 1158..1283	

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o2.np	Method	AAT/NAP
Start	1	End	5459
GI	5734709	Score	468
Exons	1..74, 277..560, 817..1352, 2394..2878, 3074..3460, 5234..5459		
GI Descrip.	(AC008075) Contains PF|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o3.tm	Method	TBLASTX:Maize
Start	137	End	487
GI	none	Score	257
Exons	137..187, 257..487, 268..486		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o1.np	Method	AAT/NAP
Start	167	End	3319
GI	6560764	Score	2118
Exons	167..560, 817..3319		
GI Descrip.	(AC010155) F3M18.12 [Arabidopsis thaliana]		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o1.gs	Method	GENSCAN
Start	235	End	3364
GI	none	Score	.99
Exons	235..560, 817..3364		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o1.tc	Method	TBLASTX:Cress
Start	271	End	3076
GI	none	Score	188
Exons	271..579, 281..562, 818..865, 819..866, 881..1048, 885..1040, 916..1044, 1049..1207, 1061..1213, 1074..1286, 1274..1381, 1275..1385, 1562..1675, 1572..1595, 1625..1855, 1628..1828, 1628..1852, 1628..2323, 1649..1828, 1676..1855, 1676..1993, 1677..1733, 1700..1855, 1712..1849, 1772..1819, 1788..2360, 1824..1991, 1899..2312, 1913..2122, 1916..2380, 1916..2371, 1916..2239, 1916..2131, 1916..2371, 1917..2243, 1970..2371, 2063..2824, 2132..2359, 2219..2380, 2430..2702, 2453..2680, 2478..2696, 2483..2917, 2483..2785, 2490..2651, 2703..2888, 2918..3076, 2918..3076, 2918..3061, 2927..3076, 2930..3076, 2930..3076, 2933..3076		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o1.ts	Method	TBLASTX:Soybean
Start	271	End	3076
GI	none	Score	85
Exons	271..426, 469..561, 473..562, 491..562, 819..857, 821..856, 869..1207, 870..989, 1068..1202, 1241..1402, 1287..1394, 1619..1855, 1628..2035, 1628..1855, 1628..2083, 1628..1855, 1703..1885, 1718..1849, 1769..1849, 1833..2012, 1844..2251, 1845..2084, 1914..2078, 1916..2377, 1916..2371, 1916..2323, 1952..2050, 1988..2371, 2063..2383, 2069..2380, 2091..2360, 2201..2371, 2421..2651, 2438..2908, 2438..2902, 2483..2788, 2490..2720, 2645..2719, 2699..2785, 2708..2824, 2777..3076, 2795..2902, 2918..3076, 2918..3049, 2918..3076, 2930..3076		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o1.tm	Method	TBLASTX:Maize
Start	487	End	1426
GI	none	Score	73
Exons	487..561, 488..562, 819..857, 827..1201, 879..1196, 1277..1426, 1287..1412		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o1.tw	Method	TBLASTX:Wheat
Start	908	End	1215

GI	none	Score	226
Exons	908..1207, 909..1205, 914..1207, 934..1215		

Seq. No.	58192	Seq. ID	OJ000330_38.0420.C23
Gene No.	121625	Strand	-
Start	1	End	5459
Name	OJ000330_38.0420.C23.o2.tm	Method	TBLASTX:Maize
Start	1583	End	3076
GI	none	Score	64
Exons	1583..2098, 1628..1741, 1682..1957, 1769..2026, 1788..1883, 1908..2099, 1913..2164, 1916..2155, 1916..2101, 1916..2320, 1970..2263, 2062..2145, 2063..2371, 2063..2314, 2063..2380, 2115..2600, 2118..2315, 2124..2318, 2127..2264, 2140..2214, 2201..2383, 2201..2374, 2337..2360, 2436..2600, 2437..2502, 2438..2647, 2438..2602, 2441..2824, 2462..2740, 2483..2755, 2489..2647, 2501..2773, 2646..2723, 2708..2788, 2795..2905, 2795..2917, 2795..2902, 2915..3076, 2918..3046, 2918..3040, 2930..3076, 2930..3076, 2943..3014, 3000..3026		

Seq. No.	58193	Seq. ID	OJ000330_38.0420.C25
Gene No.	121626	Strand	+
Start	187	End	2337
Name	OJ000330_38.0420.C25.o2.np	Method	AAT/NAP
Start	187	End	2337
GI	5922620	Score	371
Exons	187..228, 266..376, 647..671, 1292..1362, 1461..1586, 1633..1808, 1845..1929, 2207..2337		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58193	Seq. ID	OJ000330_38.0420.C25
Gene No.	121627	Strand	-
Start	49	End	1393
Name	OJ000330_38.0420.C25.o1.np	Method	AAT/NAP
Start	49	End	1393
GI	6630699	Score	93
Exons	49..127, 1356..1393		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	58194	Seq. ID	OJ000330_38.0420.C26
Gene No.	121628	Strand	+
Start	3521	End	5583
Name	OJ000330_38.0420.C26.o3.np	Method	AAT/NAP
Start	3521	End	5583
GI	6721561	Score	84
Exons	3521..3627, 5552..5583		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58194	Seq. ID	OJ000330_38.0420.C26
Gene No.	121629	Strand	+
Start	7031	End	7135
Name	OJ000330_38.0420.C26.o1.gp	Method	AAT/GAP
Start	7031	End	7135
GI	LIB3477-003-P1-K1-E9	Score	145
Exons	7031..7135		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	58194	Seq. ID	OJ000330_38.0420.C26
Gene No.	121630	Strand	-
Start	492	End	7449
Name	OJ000330_38.0420.C26.o1.gs	Method	GENSCAN
Start	492	End	4514
GI	none	Score	.56
Exons	492..658, 1821..2090, 2128..2717, 3443..3733, 4399..4514		

Seq. No.	58194	Seq. ID	OJ000330_38.0420.C26
Gene No.	121630	Strand	-
Start	492	End	7449
Name	OJ000330_38.0420.C26.o1.np	Method	AAT/NAP
Start	1623	End	4360
GI	6815109	Score	151
Exons	1623..2546, 2615..2717, 4288..4360		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58194	Seq. ID	OJ000330_38.0420.C26
Gene No.	121630	Strand	-
Start	492	End	7449
Name	OJ000330_38.0420.C26.o2.np	Method	AAT/NAP
Start	3399	End	7449
GI	4680183	Score	125
Exons	3399..3548, 7358..7449		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	58195	Seq. ID	OJ000330_38.0420.C27
Gene No.	121631	Strand	+
Start	1672	End	6091
Name	OJ000330_38.0420.C27.o1.tm	Method	TBLASTX:Maize
Start	250	End	895
GI	none	Score	35
Exons	250..324, 251..325, 251..325, 280..372, 292..324, 344..568, 346..486, 378..503, 379..477, 380..478, 380..478, 381..464, 387..479, 390..497, 395..502, 399..518, 485..634, 494..640, 494..634, 501..635, 505..633, 512..640, 513..665, 519..665, 522..677, 523..633, 524..661, 527..670, 531..671, 535..678, 607..705, 614..706, 615..707, 657..839, 690..755, 701..847, 701..886, 703..825, 704..865, 707..760, 740..865, 744..866, 758..895		

Seq. No.	58195	Seq. ID	OJ000330_38.0420.C27
Gene No.	121631	Strand	+
Start	1672	End	6091
Name	OJ000330_38.0420.C27.o1.gs	Method	GENSCAN
Start	1672	End	3761

GI	none	Score	.76
Exons	1672..1821, 3500..3761		

Seq. No.	58195	Seq. ID	OJ000330_38.0420.C27
Gene No.	121631	Strand	+
Start	1672	End	6091
Name	OJ000330_38.0420.C27.o1.np	Method	AAT/NAP
Start	2959	End	6091
GI	5852093	Score	70
Exons	2959..2980, 4329..4457, 5964..6091		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	58195	Seq. ID	OJ000330_38.0420.C27
Gene No.	121631	Strand	+
Start	1672	End	6091
Name	OJ000330_38.0420.C27.o2.gs	Method	GENSCAN
Start	5783	End	6068
GI	none	Score	.93
Exons	5783..6068		

Seq. No.	58196	Seq. ID	OJ000330_38.0420.C30
Gene No.	121632	Strand	-
Start	408	End	2992
Name	OJ000330_38.0420.C30.o1.np	Method	AAT/NAP
Start	408	End	2442
GI	7485895	Score	401
Exons	408..475, 1010..1105, 1257..1366, 1452..1574, 2151..2249, 2332..2442		
GI Descrip.	hypothetical protein F2009.150 - Arabidopsis thaliana gi|2842489|emb|CAA16886.1| (AL021749) putative protein [Arabidopsis thaliana] gi|7269701|emb|CAB79649.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	58196	Seq. ID	OJ000330_38.0420.C30
Gene No.	121632	Strand	-
Start	408	End	2992
Name	OJ000330_38.0420.C30.o1.gs	Method	GENSCAN
Start	433	End	2992
GI	none	Score	.47
Exons	433..475, 1010..1077, 1307..1366, 1452..1526, 2127..2249, 2332..2427, 2921..2992		

Seq. No.	58196	Seq. ID	OJ000330_38.0420.C30
Gene No.	121632	Strand	-
Start	408	End	2992
Name	OJ000330_38.0420.C30.o1.ts	Method	TBLASTX:Soybean
Start	433	End	2249
GI	none	Score	42
Exons	433..477, 1009..1080, 1306..1371, 1306..1368, 1307..1372, 1311..1373, 1447..1527, 1452..1574, 1452..1574, 1453..1578, 2142..2249		

Seq. No.	58197	Seq. ID	OJ000330_38.0420.C31
Gene No.	121633	Strand	-
Start	79	End	1400
Name	OJ000330_38.0420.C31.o1.np	Method	AAT/NAP
Start	79	End	1400

GI	6721516	Score	137
Exons	79..249, 833..1167, 1323..1400		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	58197	Seq. ID	OJ000330_38.0420.C31
Gene No.	121633	Strand	-
Start	79	End	1400
Name	OJ000330_38.0420.C31.o1.gs	Method	GENSCAN
Start	972	End	1091
GI	none	Score	.91
Exons	972..1091		

Seq. No.	58198	Seq. ID	OJ000330_38.0420.C32
Gene No.	121634	Strand	-
Start	275	End	760
Name	OJ000330_38.0420.C32.o1.gs	Method	GENSCAN
Start	275	End	760
GI	none	Score	.84
Exons	275..394, 725..760		

Seq. No.	58199	Seq. ID	OJ000330_24.0419.C1
Gene No.	121635	Strand	-
Start	388	End	807
Name	OJ000330_24.0419.C1.o1.gs	Method	GENSCAN
Start	388	End	807
GI	none	Score	.74
Exons	388..560, 759..807		

Seq. No.	58200	Seq. ID	OJ000330_24.0419.C4
Gene No.	121636	Strand	+
Start	1	End	2888
Name	OJ000330_24.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	2888
GI	3850576	Score	1414
Exons	1..363, 471..874, 977..1170, 1414..1594, 1979..2103, 2735..2888		
GI Descrip.	(AC005278) Strong similarity to gb|U04968 nucleotide excision repair protein (ERCC2) from Cricetulus grisseus, [Arabidopsis thaliana]		

Seq. No.	58200	Seq. ID	OJ000330_24.0419.C4
Gene No.	121636	Strand	+
Start	1	End	2888
Name	OJ000330_24.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	237	End	532
GI	none	Score	83
Exons	237..359, 250..360, 279..365, 280..360, 473..532, 475..531		

Seq. No.	58200	Seq. ID	OJ000330_24.0419.C4
Gene No.	121636	Strand	+
Start	1	End	2888
Name	OJ000330_24.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	275	End	991
GI	none	Score	97
Exons	275..355, 279..362, 280..363, 280..363, 468..800, 470..823, 472..801, 653..877, 713..763, 714..872, 734..874, 968..991		

Seq. No.	58200	Seq. ID	OJ000330_24.0419.C4

Gene No.	121636	Strand	+
Start	1	End	2888
Name	OJ000330_24.0419.C4.o1.gs	Method	GENSCAN
Start	295	End	2824
GI	none	Score	.86
Exons	295..363, 665..874, 977..1170, 1414..1594, 1979..2103, 2735..2824		

Seq. No.	58200	Seq. ID	OJ000330_24.0419.C4
Gene No.	121636	Strand	+
Start	1	End	2888
Name	OJ000330_24.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	1037	End	1495
GI	none	Score	228
Exons	1037..1168, 1039..1170, 1042..1170, 1043..1174, 1394..1492, 1411..1494, 1411..1494, 1412..1495		

Seq. No.	58200	Seq. ID	OJ000330_24.0419.C4
Gene No.	121636	Strand	+
Start	1	End	2888
Name	OJ000330_24.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	1090	End	2770
GI	none	Score	137
Exons	1090..1170, 1091..1168, 1091..1174, 1411..1599, 1412..1594, 1969..2103, 1973..2104, 1985..2104, 2721..2768, 2732..2770		

Seq. No.	58200	Seq. ID	OJ000330_24.0419.C4
Gene No.	121636	Strand	+
Start	1	End	2888
Name	OJ000330_24.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	1508	End	2104
GI	none	Score	154
Exons	1508..1594, 1508..1594, 1510..1596, 1510..1620, 1969..2103, 1973..2104		

Seq. No.	58201	Seq. ID	OJ000330_24.0419.C5
Gene No.	121637	Strand	+
Start	1	End	717
Name	OJ000330_24.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	717
GI	6503086	Score	247
Exons	1..336, 601..717		
GI Descrip.	(AF188623) nucleotide excision repair protein XP-D homolog [Arabidopsis thaliana]		

Seq. No.	58201	Seq. ID	OJ000330_24.0419.C5
Gene No.	121637	Strand	+
Start	1	End	717
Name	OJ000330_24.0419.C5.o1.gs	Method	GENSCAN
Start	228	End	711
GI	none	Score	.95
Exons	228..336, 601..711		

Seq. No.	58201	Seq. ID	OJ000330_24.0419.C5
Gene No.	121638	Strand	+
Start	6099	End	6605
Name	OJ000330_24.0419.C5.o2.gp	Method	AAT/GAP

Start	6099	End	6605
GI	LIB3434-038-P1-K1-F1	Score	673
Exons	6099..6605		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	58201	Seq. ID	OJ000330_24.0419.C5
Gene No.	121639	Strand	-
Start	599	End	1006
Name	OJ000330_24.0419.C5.o1.gp	Method	AAT/GAP
Start	599	End	1006
GI	none	Score	812
Exons	599..1006		

Seq. No.	58201	Seq. ID	OJ000330_24.0419.C5
Gene No.	121640	Strand	-
Start	1236	End	6001
Name	OJ000330_24.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	204	End	720
GI	none	Score	210
Exons	204..350, 205..336, 212..340, 586..720, 598..708, 608..718		

Seq. No.	58201	Seq. ID	OJ000330_24.0419.C5
Gene No.	121640	Strand	-
Start	1236	End	6001
Name	OJ000330_24.0419.C5.o2.gs	Method	GENSCAN
Start	1236	End	6001
GI	none	Score	.69
Exons	1236..1473, 3193..3483, 5918..6001		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121641	Strand	+
Start	1	End	1018
Name	OJ000330_24.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	683
GI	130582	Score	592
Exons	1..683		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121641	Strand	+
Start	1	End	1018
Name	OJ000330_24.0419.C7.o1.gs	Method	GENSCAN
Start	126	End	1018
GI	none	Score	.62
Exons	126..320, 360..567, 816..1018		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121642	Strand	-
Start	1770	End	2035
Name	OJ000330_24.0419.C7.o1.gp	Method	AAT/GAP
Start	1770	End	2035
GI	2798400	Score	419
Exons	1770..2035		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	2	End	208
GI	none	Score	221
Exons	2..190, 3..200, 17..208		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	93	End	677
GI	none	Score	63
Exons	93..212, 207..311, 321..458, 507..677		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	206	End	650
GI	none	Score	156
Exons	206..427, 237..440, 507..650		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	264	End	677
GI	none	Score	307
Exons	264..521, 290..517, 509..631, 509..673, 510..677		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	285	End	674
GI	none	Score	205
Exons	285..506, 309..509, 506..538, 507..551, 561..674, 569..667		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o2.gs	Method	GENSCAN
Start	2126	End	3901
GI	none	Score	.76
Exons	2126..2244, 2282..2396, 2686..2738, 2903..3038, 3194..3269, 3348..3547, 3817..3901		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o2.np	Method	AAT/NAP
Start	2422	End	4088
GI	7488152	Score	1149
Exons	2422..2502, 2686..2825, 2903..3038, 3194..3269, 3348..3571,		

3622..3723, 3817..3901, 4062..4088

GI Descrip. probable phosphoprotein phosphatase (EC 3.1.3.16) T4I9.4 - Arabidopsis thaliana gi|3924596|gb|AAC79097.1| (AF069442) putative phospho-ser/thr phosphatase [Arabidopsis thaliana] gi|7270178|emb|CAB77793.1| (AL161496) putative phospho-ser/thr phosphatase [Arabidopsis thaliana]

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	2459	End	3906
GI	none	Score	62
Exons	2459..2509, 2684..2827, 2686..2826, 2899..3054, 2901..3053, 3194..3268, 3195..3269, 3346..3474, 3347..3547, 3348..3569, 3356..3547, 3623..3670, 3625..3729, 3626..3721, 3814..3906, 3815..3898		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	2684	End	3419
GI	none	Score	122
Exons	2684..2827, 2686..2826, 2899..3048, 2899..3048, 2901..3059, 2901..3053, 3194..3268, 3195..3269, 3204..3275, 3205..3276, 3348..3419, 3356..3418		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	2901	End	3894
GI	none	Score	68
Exons	2901..3047, 2902..3048, 3390..3527, 3392..3523, 3619..3726, 3620..3724, 3812..3892, 3814..3894		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	3378	End	3894
GI	none	Score	69
Exons	3378..3494, 3389..3523, 3619..3726, 3620..3724, 3812..3892, 3814..3894		

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7
Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o2.gp	Method	AAT/GAP
Start	3409	End	3855
GI	425807	Score	503
Exons	3409..3547, 3625..3723, 3817..3855		

GI Descrip. 3924596 3.0e-42 (AF069442) putative phospho-ser/thr phosphatase [Arabidopsis thaliana]

Seq. No.	58202	Seq. ID	OJ000330_24.0419.C7

Gene No.	121643	Strand	-
Start	2126	End	4088
Name	OJ000330_24.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	3503	End	3906
GI	none	Score	60
Exons	3503..3547, 3503..3547, 3505..3597, 3624..3701, 3624..3701, 3625..3729, 3626..3730, 3814..3906, 3818..3898, 3820..3900		

Seq. No.	58203	Seq. ID	OJ000330_24.0419.C8
Gene No.	121644	Strand	-
Start	1	End	5028
Name	OJ000330_24.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	5028
GI	7488152	Score	1153
Exons	1..220, 757..932, 1004..1089, 1303..1404, 2343..2412, 3211..3310, 3918..4012, 4118..4197, 4289..4367, 4682..4742, 4882..5028		
GI Descrip.	probable phosphoprotein phosphatase (EC 3.1.3.16) T4I9.4 - Arabidopsis thaliana gi|3924596|gb|AAC79097.1| (AF069442) putative phospho-ser/thr phosphatase [Arabidopsis thaliana] gi|7270178|emb|CAB77793.1| (AL161496) putative phospho-ser/thr phosphatase [Arabidopsis thaliana]		

Seq. No.	58203	Seq. ID	OJ000330_24.0419.C8
Gene No.	121644	Strand	-
Start	1	End	5028
Name	OJ000330_24.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	52	End	928
GI	none	Score	55
Exons	52..87, 52..93, 90..149, 91..150, 93..221, 149..223, 151..222, 754..927, 756..926, 758..928		

Seq. No.	58203	Seq. ID	OJ000330_24.0419.C8
Gene No.	121644	Strand	-
Start	1	End	5028
Name	OJ000330_24.0419.C8.o1.gs	Method	GENSCAN
Start	757	End	4367
GI	none	Score	.51
Exons	757..924, 1008..1089, 1303..1404, 2343..2412, 3211..3310, 3918..4012, 4118..4197, 4289..4367		

Seq. No.	58203	Seq. ID	OJ000330_24.0419.C8
Gene No.	121644	Strand	-
Start	1	End	5028
Name	OJ000330_24.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	3225	End	4167
GI	none	Score	107
Exons	3225..3311, 3226..3312, 3916..4014, 3919..4014, 4111..4167, 4117..4164		

Seq. No.	58203	Seq. ID	OJ000330_24.0419.C8
Gene No.	121644	Strand	-
Start	1	End	5028
Name	OJ000330_24.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	3931	End	4740
GI	none	Score	55
Exons	3931..4014, 3931..4014, 4111..4200, 4117..4197, 4277..4357,		

4289..4369, 4293..4376, 4681..4740

Seq. No.	58204	Seq. ID	OJ000330_24.0419.C9
Gene No.	121645	Strand	+
Start	5071	End	10264
Name	OJ000330_24.0419.C9.o2.gs	Method	GENSCAN
Start	5071	End	10255
GI	none	Score	.83
Exons	5071..5409, 6438..6573, 7951..8054, 8836..9030, 9097..9276, 9913..10255		

Seq. No.	58204	Seq. ID	OJ000330_24.0419.C9
Gene No.	121645	Strand	+
Start	5071	End	10264
Name	OJ000330_24.0419.C9.o1.np	Method	AAT/NAP
Start	5116	End	10264
GI	6671969	Score	642
Exons	5116..5334, 6421..6591, 7062..7145, 8836..9078, 9124..9276, 9913..10264		
GI Descrip.	(AC013454) putative transcriptional regulator [Arabidopsis thaliana]		

Seq. No.	58204	Seq. ID	OJ000330_24.0419.C9
Gene No.	121645	Strand	+
Start	5071	End	10264
Name	OJ000330_24.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	9964	End	10264
GI	none	Score	165
Exons	9964..10131, 9979..10119, 10129..10212, 10135..10194, 10217..10264		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	316	End	1480
GI	none	Score	285
Exons	316..402, 317..526, 317..526, 324..527, 325..528, 745..906, 745..900, 747..902, 1147..1479, 1148..1480		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o1.gs	Method	GENSCAN
Start	324	End	1748
GI	none	Score	.45
Exons	324..525, 748..885, 1343..1748		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o1.np	Method	AAT/NAP
Start	324	End	1748
GI	6671969	Score	1208
Exons	324..525, 748..904, 1149..1748		
GI Descrip.	(AC013454) putative transcriptional regulator [Arabidopsis thaliana]		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	325	End	1731
GI	none	Score	165
Exons	325..453, 339..452, 745..861, 747..860, 1138..1215, 1139..1219, 1253..1726, 1267..1377, 1396..1731		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	1253	End	1732
GI	none	Score	458
Exons	1253..1726, 1295..1363, 1408..1731, 1478..1732		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o1.gp	Method	AAT/GAP
Start	1456	End	1757
GI	LIB3432-006-P1-K1-H7	Score	505
Exons	1456..1757		
GI Descrip.	'1439631 5.0e-36 (U64598) similar to helicases of the SNF2/RAD54 family. Does not contain the bromodomain. [Caenorhabditis elegans]'		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	1481	End	1754
GI	none	Score	170
Exons	1481..1600, 1483..1611, 1600..1746, 1601..1747, 1602..1754		

Seq. No.	58205	Seq. ID	OJ000330_24.0419.C10
Gene No.	121646	Strand	+
Start	324	End	1929
Name	OJ000330_24.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	1613	End	1929
GI	none	Score	220
Exons	1613..1753, 1614..1766, 1615..1758, 1876..1929, 1881..1916		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	457
GI	none	Score	871
Exons	1..457		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o1.tm	Method	TBLASTX:Maize

Start	8	End	298
GI	none	Score	172
Exons	8..148, 10..117, 13..153, 148..258, 167..298, 168..287		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o1.gs	Method	GENSCAN
Start	71	End	6031
GI	none	Score	.42
Exons	71..206, 1984..2133, 3028..3040, 3159..3530, 3994..4156, 4211..4312, 4513..4593, 4717..4827, 5145..5230, 5700..5819, 5909..6031		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o2.gp	Method	AAT/GAP
Start	3216	End	4288
GI	51156_1.R1084	Score	984
Exons	3216..3530, 3978..4156, 4241..4288		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	3286	End	3463
GI	none	Score	189
Exons	3286..3462, 3344..3463		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o1.np	Method	AAT/NAP
Start	3302	End	6099
GI	2651313	Score	508
Exons	3302..3466, 3971..4147, 4241..4323, 4515..4593, 4717..4827, 5145..5243, 5393..5617, 5700..5819, 5909..6099		
GI Descrip.	(AC002336) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	3322	End	5806
GI	none	Score	210
Exons	3322..3468, 3344..3469, 3973..4077, 3977..4072, 4129..4158, 4202..4312, 4209..4310, 4231..4311, 4510..4593, 4510..4602, 4515..4619, 4556..4603, 4716..4826, 4717..4827, 5756..5806		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	4232	End	5215

GI	none	Score	55
Exons	4232..4291, 4239..4289, 4513..4620, 4516..4602, 4714..4857, 4717..4827, 4742..4828, 5159..5215		

Seq. No.	58206	Seq. ID	OJ000330_24.0419.C11
Gene No.	121647	Strand	+
Start	1	End	6099
Name	OJ000330_24.0419.C11.o3.gp	Method	AAT/GAP
Start	5196	End	6031
GI	3107483	Score	485
Exons	5196..5230, 5700..5819, 5909..6031		
GI Descrip.	2651313 2.0e-16 (AC002336) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58207	Seq. ID	OJ000330_24.0419.C13
Gene No.	121648	Strand	-
Start	1	End	974
Name	OJ000330_24.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	967
GI	2104949	Score	637
Exons	1..34, 558..967		
GI Descrip.	(U96716) MAP kinase-like protein [Selaginella lepidophylla]		

Seq. No.	58207	Seq. ID	OJ000330_24.0419.C13
Gene No.	121648	Strand	-
Start	1	End	974
Name	OJ000330_24.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	543	End	784
GI	none	Score	297
Exons	543..755, 557..754, 560..784, 564..782		

Seq. No.	58207	Seq. ID	OJ000330_24.0419.C13
Gene No.	121648	Strand	-
Start	1	End	974
Name	OJ000330_24.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	551	End	949
GI	none	Score	303
Exons	551..937, 551..949, 558..947		

Seq. No.	58207	Seq. ID	OJ000330_24.0419.C13
Gene No.	121648	Strand	-
Start	1	End	974
Name	OJ000330_24.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	551	End	974
GI	none	Score	558
Exons	551..967, 552..968, 553..969, 562..972, 564..974		

Seq. No.	58207	Seq. ID	OJ000330_24.0419.C13
Gene No.	121648	Strand	-
Start	1	End	974
Name	OJ000330_24.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	557	End	973
GI	none	Score	395
Exons	557..973, 570..962		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121649	Strand	+

Start	8457	End	11435
Name	OJ000330_24.0419.C14.o1.gp	Method	AAT/GAP
Start	8214	End	8761
GI	none	Score	867
Exons	8214..8528, 8603..8761		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121649	Strand	+
Start	8457	End	11435
Name	OJ000330_24.0419.C14.o2.gs	Method	GENSCAN
Start	8457	End	11435
GI	none	Score	.55
Exons	8457..8528, 8603..8816, 9355..9856, 10489..10563, 10934..11435		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121649	Strand	+
Start	8457	End	11435
Name	OJ000330_24.0419.C14.o2.np	Method	AAT/NAP
Start	9248	End	11435
GI	7487649	Score	323
Exons	9248..9702, 10895..11435		
GI Descrip.	hypothetical protein T4I9.20 - Arabidopsis thaliana gi|3924613|gb|AAC79114.1| (AF069442) hypothetical protein [Arabidopsis thaliana] gi|4263512|gb|AAD15338.1| (AC004044) hypothetical protein [Arabidopsis thaliana] gi|7269777|emb|CAB77777.1| (AL161495) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121649	Strand	+
Start	8457	End	11435
Name	OJ000330_24.0419.C14.o2.gp	Method	AAT/GAP
Start	9441	End	10536
GI	none	Score	873
Exons	9441..9856, 10489..10536		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121649	Strand	+
Start	8457	End	11435
Name	OJ000330_24.0419.C14.o3.gp	Method	AAT/GAP
Start	10975	End	11416
GI	LIB3432-034-P2-K1-D9	Score	855
Exons	10975..11416		
GI Descrip.	'3924613 3.0e-27 (AF069442) hypothetical protein [Arabidopsis thaliana] >gi_4263512_gb_AAD15338_ (AC004044) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121650	Strand	-
Start	2817	End	5130
Name	OJ000330_24.0419.C14.o1.gs	Method	GENSCAN
Start	2817	End	5130
GI	none	Score	.86
Exons	2817..2916, 2999..3074, 4289..4422, 4532..4614, 4720..4842, 4960..5130		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14

Gene No.	121651	Strand	-
Start	8009	End	9314
Name	OJ000330_24.0419.C14.o1.np	Method	AAT/NAP
Start	8009	End	9314
GI	6815099	Score	82
Exons	8009..8099, 9286..9314		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121652	Strand	-
Start	12136	End	13293
Name	OJ000330_24.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	4531	End	5073
GI	none	Score	72
Exons	4531..4614, 4768..4842, 4960..5073, 4970..5047		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121652	Strand	-
Start	12136	End	13293
Name	OJ000330_24.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	4768	End	5073
GI	none	Score	52
Exons	4768..4842, 4789..4884, 4958..5053, 4960..5073, 5002..5067		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121652	Strand	-
Start	12136	End	13293
Name	OJ000330_24.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	9357	End	11443
GI	none	Score	157
Exons	9357..9554, 9365..9421, 9491..9553, 9557..9856, 9558..9857, 9563..9859, 9570..9866, 9778..9867, 10484..10561, 10486..10563, 10486..10563, 10941..11429, 10951..11187, 10986..11441, 10988..11443, 10994..11443		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121652	Strand	-
Start	12136	End	13293
Name	OJ000330_24.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	9360	End	11375
GI	none	Score	67
Exons	9360..9449, 10992..11081, 11049..11375, 11093..11347		

Seq. No.	58208	Seq. ID	OJ000330_24.0419.C14
Gene No.	121652	Strand	-
Start	12136	End	13293
Name	OJ000330_24.0419.C14.o3.gs	Method	GENSCAN
Start	12136	End	13293
GI	none	Score	.55
Exons	12136..12427, 12844..12914, 13171..13293		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121653	Strand	+
Start	471	End	848
Name	OJ000330_24.0419.C17.o1.gp	Method	AAT/GAP
Start	471	End	848
GI	none	Score	695

Exons	471..848		
Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121654	Strand	+
Start	3627	End	4085
Name	OJ000330_24.0419.C17.o1.gs	Method	GENSCAN
Start	3627	End	4085
GI	none	Score	.96
Exons	3627..4085		
Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121654	Strand	+
Start	3627	End	4085
Name	OJ000330_24.0419.C17.o1.np	Method	AAT/NAP
Start	3630	End	4082
GI	3021713	Score	317
Exons	3630..4082		
GI Descrip.	(AB012605) MRL [Oryza sativa]		
Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121655	Strand	+
Start	8715	End	10802
Name	OJ000330_24.0419.C17.o3.np	Method	AAT/NAP
Start	8715	End	10802
GI	6498458	Score	280
Exons	8715..9088, 10782..10802		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa]		
Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121656	Strand	-
Start	4680	End	5667
Name	OJ000330_24.0419.C17.o2.gs	Method	GENSCAN
Start	4680	End	5667
GI	none	Score	.67
Exons	4680..5054, 5122..5667		
Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121657	Strand	-
Start	5970	End	7954
Name	OJ000330_24.0419.C17.o3.gs	Method	GENSCAN
Start	5970	End	7936
GI	none	Score	.94
Exons	5970..7347, 7424..7531, 7614..7936		
Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121657	Strand	-
Start	5970	End	7954
Name	OJ000330_24.0419.C17.o2.np	Method	AAT/NAP
Start	5991	End	7954
GI	2829896	Score	536
Exons	5991..7320, 7488..7753, 7793..7954		
GI Descrip.	(AC002311) highly similar to auxin-regulated protein GH3, gp|X60033|18591 [Arabidopsis thaliana]		
Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886

Name	OJ000330_24.0419.C17.o4.tm	Method	TBLASTX:Maize
Start	29	End	271
GI	none	Score	45
Exons	29..88, 29..91, 30..89, 57..98, 87..158, 88..159, 104..160, 161..247, 162..248, 170..271, 192..248		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	3701	End	4082
GI	none	Score	171
Exons	3701..3889, 3708..3890, 3911..3988, 3912..3968, 4041..4082		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	6024	End	7172
GI	none	Score	59
Exons	6024..6173, 6462..6602, 6462..6605, 6645..6770, 6645..6773, 6780..6896, 6780..6890, 7002..7172		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	6453	End	7319
GI	none	Score	92
Exons	6453..6605, 6466..6585, 6634..6777, 6645..6773, 6775..6885, 6777..6887, 6987..7205, 7212..7319		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	6507	End	6788
GI	none	Score	101
Exons	6507..6788, 6511..6783		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	6520	End	6887
GI	none	Score	71
Exons	6520..6606, 6522..6605, 6639..6773, 6640..6771, 6780..6887, 6781..6885		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o4.np	Method	AAT/NAP
Start	12078	End	18886
GI	6321354	Score	328
Exons	12078..12181, 12349..12495, 13167..13241, 13339..13431, 13755..13864, 14022..14084, 14484..14535, 14612..14708,		

15845..15969, 18855..18886
GI Descrip. Ygl084cp gi|1723878|sp|P53154|YGI4_YEAST HYPOTHETICAL 65.3 KD PROTEIN IN MAD1-SCY1 INTERGENIC REGION gi|2132541|pir||S64091 probable membrane protein YGL084c - yeast (Saccharomyces cerevisiae) gi|1322607|emb|CAA96789.1| (Z72606) ORF YGL084c [Saccharomyces cerevisiae]

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	13190	End	14670
GI	none	Score	75
Exons	13190..13240, 13194..13241, 13297..13434, 13338..13433, 13750..13857, 13755..13859, 13763..13864, 14005..14085, 14019..14084, 14481..14540, 14620..14670, 14620..14670		

Seq. No.	58209	Seq. ID	OJ000330_24.0419.C17
Gene No.	121658	Strand	-
Start	12078	End	18886
Name	OJ000330_24.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	14481	End	14724
GI	none	Score	55
Exons	14481..14537, 14481..14537, 14482..14541, 14612..14722, 14614..14724, 14616..14723, 14617..14724		

Seq. No.	58210	Seq. ID	OJ000330_24.0419.C18
Gene No.	121659	Strand	+
Start	1	End	3145
Name	OJ000330_24.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	3145
GI	7488426	Score	912
Exons	1..45, 810..1099, 1233..1352, 1811..1888, 2024..2200, 2385..2462, 2762..2940, 3062..3145		

GI Descrip. WD-repeat protein T4I9.10 - Arabidopsis thaliana gi|3924603|gb|AAC79104.1| (AF069442) putative WD-repeat protein [Arabidopsis thaliana] gi|7269787|emb|CAB77787.1| (AL161495) putative WD-repeat protein [Arabidopsis thaliana]

Seq. No.	58210	Seq. ID	OJ000330_24.0419.C18
Gene No.	121659	Strand	+
Start	1	End	3145
Name	OJ000330_24.0419.C18.o1.gs	Method	GENSCAN
Start	758	End	3126
GI	none	Score	.88
Exons	758..1099, 1233..1352, 1811..1888, 2024..2200, 2385..2462, 2762..2934, 3062..3126		

Seq. No.	58210	Seq. ID	OJ000330_24.0419.C18
Gene No.	121659	Strand	+
Start	1	End	3145
Name	OJ000330_24.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	2024	End	2465
GI	none	Score	205
Exons	2024..2197, 2068..2196, 2388..2420, 2427..2465		

Seq. No.	58210	Seq. ID	OJ000330_24.0419.C18

Gene No.	121659	Strand	+
Start	1	End	3145
Name	OJ000330_24.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	2366	End	3145
GI	none	Score	92
Exons	2366..2440, 2380..2463, 2382..2465, 2385..2465, 2757..2918, 2759..2917, 2760..2924, 2761..2931, 2762..2932, 3060..3143, 3071..3145		

Seq. No.	58210	Seq. ID	OJ000330_24.0419.C18
Gene No.	121659	Strand	+
Start	1	End	3145
Name	OJ000330_24.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	2772	End	3143
GI	none	Score	217
Exons	2772..2918, 2780..2929, 2782..2919, 3072..3143		

Seq. No.	58211	Seq. ID	OJ000330_24.0419.C19
Gene No.	121660	Strand	+
Start	1	End	264
Name	OJ000330_24.0419.C19.o1.gp	Method	AAT/GAP
Start	1	End	264
GI	53349_1.R1084	Score	504
Exons	1..264		
GI Descrip.	'3924603 3.0e-16 (AF069442) putative WD-repeat protein [Arabidopsis thaliana]'		

Seq. No.	58211	Seq. ID	OJ000330_24.0419.C19
Gene No.	121661	Strand	-
Start	40	End	190
Name	OJ000330_24.0419.C19.o1.gs	Method	GENSCAN
Start	40	End	190
GI	none	Score	.78
Exons	40..190		

Seq. No.	58212	Seq. ID	OJ000310_24.0419.C1
Gene No.	121662	Strand	+
Start	1	End	722
Name	OJ000310_24.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	722
GI	6907086	Score	322
Exons	1..100, 369..722		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58212	Seq. ID	OJ000310_24.0419.C1
Gene No.	121662	Strand	+
Start	1	End	722
Name	OJ000310_24.0419.C1.o1.gs	Method	GENSCAN
Start	403	End	707
GI	none	Score	.8
Exons	403..707		

Seq. No.	58213	Seq. ID	OJ000310_24.0419.C2
Gene No.	121663	Strand	+
Start	271	End	548
Name	OJ000310_24.0419.C2.o1.gp	Method	AAT/GAP
Start	271	End	548

GI	3107306	Score	544
Exons	271..548		

Seq. No.	58213	Seq. ID	OJ000310_24.0419.C2
Gene No.	121664	Strand	-
Start	418	End	1018
Name	OJ000310_24.0419.C2.o1.gs	Method	GENSCAN
Start	418	End	936
GI	none	Score	.95
Exons	418..936		

Seq. No.	58213	Seq. ID	OJ000310_24.0419.C2
Gene No.	121664	Strand	-
Start	418	End	1018
Name	OJ000310_24.0419.C2.o1.np	Method	AAT/NAP
Start	467	End	1018
GI	4115615	Score	432
Exons	467..1018		
GI Descrip.	(AB014475) root cap-specific glycine-rich protein [Zea mays]		

Seq. No.	58213	Seq. ID	OJ000310_24.0419.C2
Gene No.	121664	Strand	-
Start	418	End	1018
Name	OJ000310_24.0419.C2.o2.gp	Method	AAT/GAP
Start	727	End	1017
GI	4878921	Score	538
Exons	727..1017		

Seq. No.	58214	Seq. ID	OJ000310_24.0419.C3
Gene No.	121665	Strand	-
Start	1177	End	1284
Name	OJ000310_24.0419.C3.o1.gs	Method	GENSCAN
Start	1177	End	1284
GI	none	Score	.59
Exons	1177..1284		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121666	Strand	-
Start	111	End	668
Name	OJ000310_24.0419.C4.o1.gs	Method	GENSCAN
Start	111	End	668
GI	none	Score	.98
Exons	111..668		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121667	Strand	-
Start	3121	End	3930
Name	OJ000310_24.0419.C4.o1.np	Method	AAT/NAP
Start	3121	End	3930
GI	7442081	Score	733
Exons	3121..3550, 3578..3930		
GI Descrip.	glycine-rich protein grp3 - maize gi|1532071|emb|CAA69104.1| (Y07781) glycine-rich protein [Zea mays]		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121668	Strand	-
Start	9848	End	10426

Name	OJ000310_24.0419.C4.o4.gs	Method	GENSCAN
Start	9848	End	10426
GI	none	Score	.73
Exons	9848..10426		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	7214	End	7504
GI	none	Score	91
Exons	7214..7312, 7317..7460, 7322..7504, 7328..7462, 7392..7499		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	7391	End	7741
GI	none	Score	78
Exons	7391..7702, 7551..7685, 7559..7741		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o1.gp	Method	AAT/GAP
Start	11389	End	11835
GI	3767838	Score	829
Exons	11389..11835		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o5.gs	Method	GENSCAN
Start	11591	End	12912
GI	none	Score	.77
Exons	11591..11735, 11791..11906, 12006..12086, 12164..12307, 12656..12737, 12830..12912		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	11764	End	12310
GI	none	Score	82
Exons	11764..11904, 11764..11907, 11780..11908, 11823..11915, 11988..12089, 12006..12089, 12162..12308, 12163..12309, 12163..12309, 12266..12310		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o3.np	Method	AAT/NAP
Start	11808	End	13087
GI	7493283	Score	313
Exons	11808..11834, 12164..12307, 12656..12737, 12830..12912, 13006..13087		
GI Descrip.	Rev interacting protein Rip-1 homolog - fission yeast		

(Schizosaccharomyces pombe) gi|3738208|emb|CAA21263.1| (AL031853) strong similarity to yeast cell division and spore germination protein Krr1p [Schizosaccharomyces pombe] gi|5578744|dbj|BAA82594.1| (AB030208) Mis3 [Schizosaccharomyces pombe]

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	12186	End	13083
GI	none	Score	94
Exons	12186..12287, 12218..12307, 12657..12746, 12658..12738, 12696..12758, 12827..12850, 12829..12909, 12844..12915, 13006..13083, 13010..13078		

Seq. No.	58215	Seq. ID	OJ000310_24.0419.C4
Gene No.	121669	Strand	-
Start	11591	End	13087
Name	OJ000310_24.0419.C4.o2.gp	Method	AAT/GAP
Start	12229	End	13087
GI	LIB3477-007-P1-K1-H1	Score	541
Exons	12229..12307, 12656..12737, 12830..12912, 13006..13087		
GI Descrip.	'3738208/emb|CAA21263| 1.0e-46 (AL031853) strong similarity to human Rev interacting protein Rip-1 [Schizosaccharomyces pombe] >gi_5578744_dbj_BAA82594.1_ (AB030208) Mis3 [Schizosaccharomyces pombe]'		

Seq. No.	58216	Seq. ID	OJ000310_24.0419.C5
Gene No.	121670	Strand	-
Start	1	End	1768
Name	OJ000310_24.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1768
GI	7493283	Score	281
Exons	1..21, 106..145, 242..298, 938..1006, 1196..1306, 1407..1483, 1582..1768		
GI Descrip.	Rev interacting protein Rip-1 homolog - fission yeast (Schizosaccharomyces pombe) gi|3738208|emb|CAA21263.1| (AL031853) strong similarity to yeast cell division and spore germination protein Krr1p [Schizosaccharomyces pombe] gi|5578744|dbj|BAA82594.1| (AB030208) Mis3 [Schizosaccharomyces pombe]		

Seq. No.	58216	Seq. ID	OJ000310_24.0419.C5
Gene No.	121670	Strand	-
Start	1	End	1768
Name	OJ000310_24.0419.C5.o1.gp	Method	AAT/GAP
Start	74	End	1494
GI	428462	Score	595
Exons	74..145, 242..298, 938..1006, 1196..1306, 1407..1494		
GI Descrip.	3738208/emb|CAA21263| 1.0e-46 (AL031853) strong similarity to human Rev interacting protein Rip-1 [Schizosaccharomyces pombe] >gi_5578744_dbj_BAA82594.1_ (AB030208) Mis3 [Schizosaccharomyces pombe]		

Seq. No.	58216	Seq. ID	OJ000310_24.0419.C5
Gene No.	121670	Strand	-

Start	1	End	1768
Name	OJ000310_24.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	104	End	1621
GI	none	Score	59
Exons	104..151, 242..301, 246..299, 938..1009, 1164..1322, 1190..1306, 1404..1484, 1405..1485, 1407..1490, 1577..1621		

Seq. No.	58216	Seq. ID	OJ000310_24.0419.C5
Gene No.	121670	Strand	-
Start	1	End	1768
Name	OJ000310_24.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	104	End	1622
GI	none	Score	37
Exons	104..151, 123..152, 242..301, 243..299, 938..1012, 938..1009, 1170..1307, 1190..1306, 1195..1308, 1404..1484, 1405..1485, 1405..1485, 1566..1622, 1575..1622		

Seq. No.	58216	Seq. ID	OJ000310_24.0419.C5
Gene No.	121670	Strand	-
Start	1	End	1768
Name	OJ000310_24.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	104	End	1622
GI	none	Score	105
Exons	104..151, 242..313, 938..1009, 1190..1306, 1200..1307, 1404..1484, 1405..1485, 1572..1622, 1577..1621		

Seq. No.	58216	Seq. ID	OJ000310_24.0419.C5
Gene No.	121670	Strand	-
Start	1	End	1768
Name	OJ000310_24.0419.C5.o1.gs	Method	GENSCAN
Start	242	End	1588
GI	none	Score	.94
Exons	242..298, 938..1006, 1196..1306, 1407..1588		

Seq. No.	58217	Seq. ID	OJ000310_24.0419.C6
Gene No.	121671	Strand	+
Start	1	End	711
Name	OJ000310_24.0419.C6.o1.gp	Method	AAT/GAP
Start	1	End	106
GI	27491_1.R1084	Score	181
Exons	1..106		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	58217	Seq. ID	OJ000310_24.0419.C6
Gene No.	121671	Strand	+
Start	1	End	711
Name	OJ000310_24.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	711
GI	2245394	Score	138
Exons	1..201, 615..711		
GI Descrip.	(U89771) ARF1-binding protein [Arabidopsis thaliana]		

Seq. No.	58217	Seq. ID	OJ000310_24.0419.C6
Gene No.	121671	Strand	+
Start	1	End	711
Name	OJ000310_24.0419.C6.o1.gs	Method	GENSCAN

Start	116	End	201
GI	none	Score	.81
Exons	116..201		

Seq. No.	58217	Seq. ID	OJ000310_24.0419.C6
Gene No.	121671	Strand	+
Start	1	End	711
Name	OJ000310_24.0419.C6.o2.gp	Method	AAT/GAP
Start	124	End	711
GI	3107788	Score	318
Exons	124..201, 615..711		
GI Descrip.	2245394 1.0e-15 (U89771) ARF1-binding protein [Arabidopsis thaliana]		

Seq. No.	58218	Seq. ID	OJ000310_24.0419.C7
Gene No.	121672	Strand	+
Start	2936	End	3041
Name	OJ000310_24.0419.C7.o2.gp	Method	AAT/GAP
Start	2936	End	3041
GI	5816518	Score	156
Exons	2936..3041		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	58218	Seq. ID	OJ000310_24.0419.C7
Gene No.	121673	Strand	-
Start	1	End	2927
Name	OJ000310_24.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	2801
GI	7106512	Score	138
Exons	1..26, 2620..2668, 2742..2801		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58218	Seq. ID	OJ000310_24.0419.C7
Gene No.	121673	Strand	-
Start	1	End	2927
Name	OJ000310_24.0419.C7.o1.gp	Method	AAT/GAP
Start	2699	End	2927
GI	3761181	Score	345
Exons	2699..2927		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	58218	Seq. ID	OJ000310_24.0419.C7
Gene No.	121674	Strand	-
Start	4671	End	7940
Name	OJ000310_24.0419.C7.o2.gs	Method	GENSCAN
Start	4671	End	7891
GI	none	Score	.44
Exons	4671..5029, 5333..5555, 5602..6484, 7121..7891		

Seq. No.	58218	Seq. ID	OJ000310_24.0419.C7
Gene No.	121674	Strand	-
Start	4671	End	7940
Name	OJ000310_24.0419.C7.o2.np	Method	AAT/NAP
Start	5182	End	7940

GI	7106512	Score	2642
Exons	5182..5555, 5610..6547, 7001..7940		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58219	Seq. ID	OJ000310_24.0419.C8
Gene No.	121675	Strand	+
Start	6833	End	6969
Name	OJ000310_24.0419.C8.o3.gp	Method	AAT/GAP
Start	6833	End	6969
GI	265_1.R1084	Score	228
Exons	6833..6969		
GI Descrip.	'425800/dbj|D21281|RICAD489 1.0e-158 Rice mRNA for glycine-rich protein (gene name AD489), partial cds'		

Seq. No.	58219	Seq. ID	OJ000310_24.0419.C8
Gene No.	121676	Strand	+
Start	6877	End	6969
Name	OJ000310_24.0419.C8.o2.np	Method	AAT/NAP
Start	6877	End	6969
GI	232183	Score	149
Exons	6877..6969		
GI Descrip.	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN 2 PRECURSOR gi|72322|pir||KNRZG2 glycine-rich cell wall structural protein 2 precursor - rice gi|20245|emb|CAA38315.1| (X54449) Glycine-rich protein [Oryza sativa] gi|1167557|gb|AAA85863.1| (U40708) glycine-rich protein [Oryza sativa]		

Seq. No.	58219	Seq. ID	OJ000310_24.0419.C8
Gene No.	121677	Strand	-
Start	1	End	1503
Name	OJ000310_24.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1377
GI	7106512	Score	1314
Exons	1..821, 941..1244, 1318..1377		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58219	Seq. ID	OJ000310_24.0419.C8
Gene No.	121677	Strand	-
Start	1	End	1503
Name	OJ000310_24.0419.C8.o1.gp	Method	AAT/GAP
Start	1275	End	1503
GI	3761181	Score	337
Exons	1275..1503		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	58219	Seq. ID	OJ000310_24.0419.C8
Gene No.	121678	Strand	-
Start	1511	End	2212
Name	OJ000310_24.0419.C8.o2.gp	Method	AAT/GAP
Start	1511	End	2212
GI	5816518	Score	164
Exons	1511..1619, 2185..2212		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	58220	Seq. ID	OJ000310_24.0419.C9
Gene No.	121679	Strand	+
Start	10	End	168
Name	OJ000310_24.0419.C9.o1.gs	Method	GENSCAN
Start	10	End	168
GI	none	Score	.97
Exons	10..168		

Seq. No.	58220	Seq. ID	OJ000310_24.0419.C9
Gene No.	121680	Strand	-
Start	1	End	375
Name	OJ000310_24.0419.C9.o1.gp	Method	AAT/GAP
Start	1	End	375
GI	265_1.R1084	Score	704
Exons	1..375		
GI Descrip.	'425800/dbj|D21281|RICAD489 1.0e-158 Rice mRNA for glycine-rich protein (gene name AD489), partial cds'		

Seq. No.	58221	Seq. ID	OJ000310_24.0419.C10
Gene No.	121681	Strand	+
Start	55	End	399
Name	OJ000310_24.0419.C10.o1.gs	Method	GENSCAN
Start	55	End	399
GI	none	Score	.87
Exons	55..399		

Seq. No.	58221	Seq. ID	OJ000310_24.0419.C10
Gene No.	121682	Strand	-
Start	943	End	1054
Name	OJ000310_24.0419.C10.o2.gs	Method	GENSCAN
Start	943	End	1054
GI	none	Score	.98
Exons	943..1054		

Seq. No.	58222	Seq. ID	OJ000310_24.0419.C11
Gene No.	121683	Strand	+
Start	38	End	348
Name	OJ000310_24.0419.C11.o1.gs	Method	GENSCAN
Start	38	End	348
GI	none	Score	.81
Exons	38..152, 206..348		

Seq. No.	58222	Seq. ID	OJ000310_24.0419.C11
Gene No.	121684	Strand	+
Start	2717	End	4663
Name	OJ000310_24.0419.C11.o2.gs	Method	GENSCAN
Start	2717	End	4663
GI	none	Score	.65
Exons	2717..2736, 3696..3834, 3996..4238, 4319..4532, 4647..4663		

Seq. No.	58222	Seq. ID	OJ000310_24.0419.C11
Gene No.	121685	Strand	+
Start	5424	End	5627
Name	OJ000310_24.0419.C11.o3.gs	Method	GENSCAN
Start	5424	End	5627
GI	none	Score	.59

Exons	5424..5627		
Seq. No.	58222	Seq. ID	OJ000310_24.0419.C11
Gene No.	121686	Strand	-
Start	6106	End	7212
Name	OJ000310_24.0419.C11.o4.gs	Method	GENSCAN
Start	6106	End	7006
GI	none	Score	.44
Exons	6106..6182, 6259..6722, 6780..7006		
Seq. No.	58222	Seq. ID	OJ000310_24.0419.C11
Gene No.	121686	Strand	-
Start	6106	End	7212
Name	OJ000310_24.0419.C11.o1.np	Method	AAT/NAP
Start	6423	End	7212
GI	7486726	Score	356
Exons	6423..7212		
GI Descrip.	hypothetical protein F9D12.2 - Arabidopsis thaliana gi|3319345|gb|AAC26234.1| (AF077407) contains similarity to maize transposon MuDR (GB:M76978) [Arabidopsis thaliana]		
Seq. No.	58222	Seq. ID	OJ000310_24.0419.C11
Gene No.	121686	Strand	-
Start	6106	End	7212
Name	OJ000310_24.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	6614	End	7093
GI	none	Score	136
Exons	6614..6877, 6902..7093		
Seq. No.	58222	Seq. ID	OJ000310_24.0419.C11
Gene No.	121686	Strand	-
Start	6106	End	7212
Name	OJ000310_24.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	6620	End	7057
GI	none	Score	71
Exons	6620..7057, 6738..6824		
Seq. No.	58223	Seq. ID	OJ000310_24.0419.C14
Gene No.	121687	Strand	+
Start	103	End	227
Name	OJ000310_24.0419.C14.o1.gs	Method	GENSCAN
Start	103	End	227
GI	none	Score	.54
Exons	103..227		
Seq. No.	58223	Seq. ID	OJ000310_24.0419.C14
Gene No.	121688	Strand	+
Start	507	End	1180
Name	OJ000310_24.0419.C14.o1.np	Method	AAT/NAP
Start	507	End	1180
GI	6539571	Score	41
Exons	507..616, 1075..1180		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	58223	Seq. ID	OJ000310_24.0419.C14
Gene No.	121689	Strand	+
Start	1224	End	1975

Name	OJ000310_24.0419.C14.o2.gs	Method	GENSCAN
Start	1224	End	1781
GI	none	Score	.74
Exons	1224..1781		

Seq. No.	58223	Seq. ID	OJ000310_24.0419.C14
Gene No.	121689	Strand	+
Start	1224	End	1975
Name	OJ000310_24.0419.C14.o1.gp	Method	AAT/GAP
Start	1599	End	1975
GI	3107215	Score	504
Exons	1599..1975		

Seq. No.	58224	Seq. ID	OJ000310_24.0419.C15
Gene No.	121690	Strand	+
Start	837	End	943
Name	OJ000310_24.0419.C15.o1.gp	Method	AAT/GAP
Start	837	End	943
GI	none	Score	207
Exons	837..943		

Seq. No.	58225	Seq. ID	OJ000310_24.0419.C16
Gene No.	121691	Strand	+
Start	9	End	2257
Name	OJ000310_24.0419.C16.o1.gs	Method	GENSCAN
Start	9	End	2257
GI	none	Score	.51
Exons	9..200, 218..466, 1330..1443, 1552..1577, 2082..2257		

Seq. No.	58225	Seq. ID	OJ000310_24.0419.C16
Gene No.	121692	Strand	-
Start	2013	End	2312
Name	OJ000310_24.0419.C16.o1.np	Method	AAT/NAP
Start	2013	End	2312
GI	5295967	Score	228
Exons	2013..2312		
GI Descrip.	(AB026295) Similar to Lycopersicon esculentum pT53 mRNA for wound-repressed gene, partial cds.(X59883) [Oryza sativa]		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17
Gene No.	121693	Strand	+
Start	1813	End	2189
Name	OJ000310_24.0419.C17.o1.gs	Method	GENSCAN
Start	1813	End	2189
GI	none	Score	.96
Exons	1813..1962, 2170..2189		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17
Gene No.	121693	Strand	+
Start	1813	End	2189
Name	OJ000310_24.0419.C17.o1.np	Method	AAT/NAP
Start	1813	End	1968
GI	5852172	Score	89
Exons	1813..1968		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17

Gene No.	121694	Strand	+
Start	2702	End	8089
Name	OJ000310_24.0419.C17.o1.gp	Method	AAT/GAP
Start	2541	End	2893
GI	286657	Score	702
Exons	2541..2893		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17
Gene No.	121694	Strand	+
Start	2702	End	8089
Name	OJ000310_24.0419.C17.o2.np	Method	AAT/NAP
Start	2566	End	8011
GI	4115615	Score	461
Exons	2566..2866, 3203..3316, 7839..8011		
GI Descrip.	(AB014475) root cap-specific glycine-rich protein [Zea mays]		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17
Gene No.	121694	Strand	+
Start	2702	End	8089
Name	OJ000310_24.0419.C17.o2.gs	Method	GENSCAN
Start	2702	End	3421
GI	none	Score	.87
Exons	2702..2934, 2986..3421		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17
Gene No.	121694	Strand	+
Start	2702	End	8089
Name	OJ000310_24.0419.C17.o2.gp	Method	AAT/GAP
Start	3095	End	3289
GI	3107722	Score	390
Exons	3095..3289		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17
Gene No.	121694	Strand	+
Start	2702	End	8089
Name	OJ000310_24.0419.C17.o4.gs	Method	GENSCAN
Start	7586	End	8089
GI	none	Score	.66
Exons	7586..7657, 7755..7958, 8003..8089		

Seq. No.	58226	Seq. ID	OJ000310_24.0419.C17
Gene No.	121695	Strand	-
Start	4590	End	6438
Name	OJ000310_24.0419.C17.o3.gs	Method	GENSCAN
Start	4590	End	6438
GI	none	Score	.56
Exons	4590..4691, 5429..5476, 6232..6438		

Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121696	Strand	+
Start	2856	End	4307
Name	OJ000310_24.0419.C19.o1.np	Method	AAT/NAP
Start	2856	End	4307
GI	6907088	Score	906
Exons	2856..2993, 3169..3410, 3907..4307		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121697	Strand	+
Start	5173	End	5262
Name	OJ000310_24.0419.C19.o3.np	Method	AAT/NAP
Start	5173	End	5262
GI	4680183	Score	128
Exons	5173..5262		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121698	Strand	-
Start	1994	End	2509
Name	OJ000310_24.0419.C19.o1.gp	Method	AAT/GAP
Start	1994	End	2509
GI	38782_1.R1084	Score	813
Exons	1994..2509		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121699	Strand	-
Start	4435	End	4545
Name	OJ000310_24.0419.C19.o2.gp	Method	AAT/GAP
Start	4435	End	4545
GI	uC-osflcyp088b12b1	Score	155
Exons	4435..4545		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121700	Strand	-
Start	5050	End	5140
Name	OJ000310_24.0419.C19.o2.np	Method	AAT/NAP
Start	5050	End	5140
GI	6721561	Score	133
Exons	5050..5140		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121701	Strand	-
Start	5976	End	9847
Name	OJ000310_24.0419.C19.o2.gs	Method	GENSCAN
Start	5976	End	9847
GI	none	Score	56
Exons	5976..6136, 6292..6527, 6575..6650, 7199..7273, 7841..7988, 8807..8909, 9050..9133, 9393..9470, 9670..9847		

Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121701	Strand	-
Start	5976	End	9847
Name	OJ000310_24.0419.C19.o4.np	Method	AAT/NAP
Start	6295	End	9083
GI	7508879	Score	155

Exons	6295..6869, 7061..7342, 9021..9083		
GI Descrip.	hypothetical protein W03D2.1 - Caenorhabditis elegans gi|1947160|gb|AAC48255.1| (AF000298) weak similarity to collagens; glycine- and proline-rich [Caenorhabditis elegans]		
Seq. No.	58227	Seq. ID	OJ000310_24.0419.C19
Gene No.	121702	Strand	-
Start	10165	End	10275
Name	OJ000310_24.0419.C19.o3.gp	Method	AAT/GAP
Start	10165	End	10275
GI	uC-osf1cyp088b12b1	Score	154
Exons	10165..10275		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	58228	Seq. ID	OJ000310_24.0419.C20
Gene No.	121703	Strand	+
Start	260	End	464
Name	OJ000310_24.0419.C20.o1.gs	Method	GENSCAN
Start	260	End	464
GI	none	Score	.92
Exons	260..464		
Seq. No.	58229	Seq. ID	OJ000310_24.0419.C21
Gene No.	121704	Strand	+
Start	430	End	648
Name	OJ000310_24.0419.C21.o1.gs	Method	GENSCAN
Start	430	End	648
GI	none	Score	.84
Exons	430..501, 517..648		
Seq. No.	58229	Seq. ID	OJ000310_24.0419.C21
Gene No.	121705	Strand	-
Start	1	End	181
Name	OJ000310_24.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	181
GI	7340884	Score	96
Exons	1..181		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		
Seq. No.	58230	Seq. ID	OJ000310_24.0419.C23
Gene No.	121706	Strand	+
Start	267	End	1761
Name	OJ000310_24.0419.C23.o1.gs	Method	GENSCAN
Start	267	End	1761
GI	none	Score	.43
Exons	267..889, 1230..1315, 1590..1761		
Seq. No.	58230	Seq. ID	OJ000310_24.0419.C23
Gene No.	121707	Strand	+
Start	3011	End	8961
Name	OJ000310_24.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	153	End	691
GI	none	Score	113
Exons	153..335, 158..337, 160..333, 161..334, 333..380, 334..396, 335..397, 481..678, 485..691, 500..688		

Seq. No.	58230	Seq. ID	OJ000310_24.0419.C23
Gene No.	121707	Strand	+
Start	3011	End	8961
Name	OJ000310_24.0419.C23.o3.np	Method	AAT/NAP
Start	3011	End	8961
GI	4522005	Score	89
Exons	3011..3037, 8670..8961		
GI Descrip.	(AC007069) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	58230	Seq. ID	OJ000310_24.0419.C23
Gene No.	121707	Strand	+
Start	3011	End	8961
Name	OJ000310_24.0419.C23.o2.np	Method	AAT/NAP
Start	6231	End	7690
GI	6907088	Score	466
Exons	6231..6367, 6544..6759, 7279..7690		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58231	Seq. ID	OJ000310_24.0419.C24
Gene No.	121708	Strand	-
Start	1	End	493
Name	OJ000310_24.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	493
GI	232183	Score	635
Exons	1..493		
GI Descrip.	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN 2 PRECURSOR gi|72322|pir||KNRZG2 glycine-rich cell wall structural protein 2 precursor - rice gi|20245|emb|CAA38315.1| (X54449) Glycine-rich protein [Oryza sativa] gi|1167557|gb|AAA85863.1| (U40708) glycine-rich protein [Oryza sativa]		

Seq. No.	58232	Seq. ID	OJ000320_25.0419.C2
Gene No.	121709	Strand	+
Start	2213	End	2630
Name	OJ000320_25.0419.C2.o1.gs	Method	GENSCAN
Start	2213	End	2630
GI	none	Score	.49
Exons	2213..2275, 2328..2630		

Seq. No.	58232	Seq. ID	OJ000320_25.0419.C2
Gene No.	121709	Strand	+
Start	2213	End	2630
Name	OJ000320_25.0419.C2.o1.np	Method	AAT/NAP
Start	2213	End	2627
GI	6815064	Score	624
Exons	2213..2275, 2328..2627		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	58232	Seq. ID	OJ000320_25.0419.C2
Gene No.	121710	Strand	-
Start	3848	End	4271
Name	OJ000320_25.0419.C2.o2.gs	Method	GENSCAN
Start	3848	End	4264
GI	none	Score	.71
Exons	3848..4011, 4078..4264		

Seq. No.	58232	Seq. ID	OJ000320_25.0419.C2
Gene No.	121710	Strand	-
Start	3848	End	4271
Name	OJ000320_25.0419.C2.o2.np	Method	AAT/NAP
Start	3942	End	4271
GI	6815065	Score	592
Exons	3942..4271		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	58233	Seq. ID	OJ000320_25.0419.C3
Gene No.	121711	Strand	-
Start	1654	End	3088
Name	OJ000320_25.0419.C3.o2.gs	Method	GENSCAN
Start	1654	End	1983
GI	none	Score	.8
Exons	1654..1983		

Seq. No.	58233	Seq. ID	OJ000320_25.0419.C3
Gene No.	121711	Strand	-
Start	1654	End	3088
Name	OJ000320_25.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1717	End	1984
GI	none	Score	157
Exons	1717..1983, 1718..1984		

Seq. No.	58233	Seq. ID	OJ000320_25.0419.C3
Gene No.	121711	Strand	-
Start	1654	End	3088
Name	OJ000320_25.0419.C3.o1.np	Method	AAT/NAP
Start	1723	End	3088
GI	6815066	Score	247
Exons	1723..1913, 3059..3088		
GI Descrip.	(AP001080) EST C26866(C50282) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121712	Strand	+
Start	956	End	3158
Name	OJ000320_25.0419.C4.o1.gs	Method	GENSCAN
Start	956	End	3158
GI	none	Score	.77
Exons	956..1105, 2839..2920, 2971..3158		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121713	Strand	+
Start	15253	End	19168
Name	OJ000320_25.0419.C4.o3.gs	Method	GENSCAN
Start	15253	End	18923
GI	none	Score	.53
Exons	15253..15411, 16570..17128, 17218..17371, 18070..18231, 18605..18695, 18852..18923		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121713	Strand	+
Start	15253	End	19168
Name	OJ000320_25.0419.C4.o4.np	Method	AAT/NAP

Start	15253	End	19168
GI	6815069	Score	2297
Exons	15253..15411, 16570..17128, 17218..17371, 18070..18231, 18605..18695, 18852..18923, 19009..19168		
GI Descrip.	(AP001080) Similar to KIAA0731 protein (AB018274) [Oryza sativa]		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121714	Strand	-
Start	1	End	1137
Name	OJ000320_25.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	1137
GI	none	Score	610
Exons	1..51, 852..1137		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121714	Strand	-
Start	1	End	1137
Name	OJ000320_25.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1047
GI	6815066	Score	387
Exons	1..49, 851..1047		
GI Descrip.	(AP001080) EST C26866(C50282) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o2.gp	Method	AAT/GAP
Start	4123	End	6849
GI	none	Score	1223
Exons	4123..4414, 5340..5653, 6819..6849		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	4220	End	4468
GI	none	Score	129
Exons	4220..4240, 4235..4381, 4240..4383, 4261..4383, 4280..4396, 4370..4417, 4385..4468, 4386..4460		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o2.gs	Method	GENSCAN
Start	5340	End	13330
GI	none	Score	.7
Exons	5340..6650, 6720..6864, 6932..7055, 9098..9299, 9395..9544, 9626..9767, 10394..10473, 10974..11238, 12329..12427, 12962..13016, 13288..13330		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o2.np	Method	AAT/NAP
Start	5343	End	6812
GI	6815067	Score	2487

Exons	5343..6812		
GI Descrip.	(AP001080) ESTs AU082210(C53655),AU056546(S20671), AU056545(S20671) correspond to a region of the predicted gene.; Similar to putative RNA-binding protein (AC004261) [Oryza sativa]		
Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	5561	End	6482
GI	none	Score	42
Exons	5561..5719, 5763..6029, 5764..6033, 5769..6014, 5780..6034, 5830..6027, 6102..6482, 6103..6375, 6108..6347		
Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	5617	End	6347
GI	none	Score	35
Exons	5617..5679, 5690..6004, 5743..6012, 5763..6029, 5764..6033, 6096..6158, 6097..6159, 6102..6347		
Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	5763	End	6375
GI	none	Score	300
Exons	5763..6026, 5764..6027, 5775..6026, 6102..6347, 6103..6276, 6105..6374, 6106..6375		
Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o3.gp	Method	AAT/GAP
Start	7794	End	7950
GI	2798499	Score	212
Exons	7794..7950		
Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	7957	End	9242
GI	none	Score	105
Exons	7957..8064, 7958..8065, 7959..8066, 7960..8088, 9057..9242, 9096..9242		
Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o3.np	Method	AAT/NAP
Start	7965	End	11484
GI	6815068	Score	1467
Exons	7965..8065, 9098..9299, 9395..9544, 9626..9767, 10394..10473,		

	11102..11238, 11325..11484		
GI Descrip.	(AP001080) Similar to putative translin (AC006836) [Oryza sativa]		
Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	9098	End	9299
GI	none	Score	65
Exons	9098..9202, 9099..9200, 9100..9234, 9193..9255, 9195..9254, 9252..9299		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	9167	End	11147
GI	none	Score	175
Exons	9167..9298, 9168..9299, 9169..9300, 9392..9550, 9394..9543, 9609..9770, 9623..9769, 10393..10473, 10395..10475, 10396..10485, 11102..11146, 11103..11147, 11103..11147		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121715	Strand	-
Start	4123	End	13330
Name	OJ000320_25.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	9405	End	10473
GI	none	Score	83
Exons	9405..9542, 9407..9544, 9407..9544, 9609..9770, 9623..9769, 10393..10473, 10400..10471		

Seq. No.	58234	Seq. ID	OJ000320_25.0419.C4
Gene No.	121716	Strand	
Start	16875	End	17376
Name	OJ000320_25.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	16875	End	17376
GI	none	Score	110
Exons	16875..16946, 16876..16947, 16876..16947, 16944..17129, 16944..17129, 16945..17130, 17211..17303, 17212..17301, 17271..17330, 17296..17376, 17328..17366		

Seq. No.	58235	Seq. ID	OJ000320_25.0419.C5
Gene No.	121717	Strand	+
Start	1	End	848
Name	OJ000320_25.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	848
GI	6815069	Score	177
Exons	1..138, 729..848		
GI Descrip.	(AP001080) Similar to KIAA0731 protein (AB018274) [Oryza sativa]		

Seq. No.	58235	Seq. ID	OJ000320_25.0419.C5
Gene No.	121717	Strand	+
Start	1	End	848
Name	OJ000320_25.0419.C5.o1.gs	Method	GENSCAN
Start	69	End	794
GI	none	Score	.76

Exons	69..138, 729..794		
Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121718	Strand	+
Start	1	End	1231
Name	OJ000320_25.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1231
GI	4416301	Score	131
Exons	1..263, 1062..1231		
GI Descrip.	(AF105716) gag protein [Zea mays]		
Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	1150	End	1490
GI	none	Score	96
Exons	1150..1224, 1151..1228, 1248..1490, 1253..1489		
Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o3.tw	Method	TBLASTX:Wheat
Start	1269	End	1583
GI	none	Score	224
Exons	1269..1583, 1269..1310, 1355..1483		
Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o2.np	Method	AAT/NAP
Start	1317	End	2966
GI	6630685	Score	2342
Exons	1317..1388, 1679..2966		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		
Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1491	End	1885
GI	none	Score	143
Exons	1491..1610, 1499..1606, 1610..1735, 1617..1721, 1618..1737, 1718..1885, 1722..1802, 1726..1884		
Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	1659	End	2221
GI	none	Score	90
Exons	1659..1721, 1715..1897, 1715..1873, 1726..1881, 1816..1926, 1842..1949, 1908..1952, 1933..2220, 1937..2221		
Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+

Start	1317	End	2966
Name	OJ000320_25.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	1886	End	2758
GI	none	Score	103
Exons	1886..1957, 1891..2631, 1958..2758, 2635..2676		

Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	2066	End	2527
GI	none	Score	303
Exons	2066..2527, 2086..2376		

Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	2102	End	2524
GI	none	Score	228
Exons	2102..2524		

Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	2309	End	2653
GI	none	Score	133
Exons	2309..2398, 2311..2385, 2319..2387, 2387..2551, 2398..2562, 2573..2653, 2573..2653		

Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No,	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	2765	End	2966
GI	none	Score	297
Exons	2765..2965, 2767..2961, 2832..2966		

Seq. No.	58236	Seq. ID	OJ000320_25.0419.C6
Gene No.	121719	Strand	+
Start	1317	End	2966
Name	OJ000320_25.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	2792	End	2965
GI	5509260	Score	188
Exons	2792..2965		
GI Descrip.	-		

Seq. No.	58237	Seq. ID	OJ000320_25.0419.C7
Gene No.	121720	Strand	+
Start	1	End	532
Name	OJ000320_25.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	482
GI	6630685	Score	822
Exons	1..482		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	58237	Seq. ID	OJ000320_25.0419.C7
Gene No.	121720	Strand	+
Start	1	End	532
Name	OJ000320_25.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	3	End	532
GI	none	Score	704
Exons	3..479, 3..107, 31..264, 41..505, 299..532		

Seq. No.	58237	Seq. ID	OJ000320_25.0419.C7
Gene No.	121720	Strand	+
Start	1	End	532
Name	OJ000320_25.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	9	End	464
GI	none	Score	65
Exons	9..95, 99..233, 245..412, 252..464		

Seq. No.	58237	Seq. ID	OJ000320_25.0419.C7
Gene No.	121720	Strand	+
Start	1	End	532
Name	OJ000320_25.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	9	End	467
GI	none	Score	209
Exons	9..215, 15..209, 50..214, 227..319, 234..467		

Seq. No.	58237	Seq. ID	OJ000320_25.0419.C7
Gene No.	121720	Strand	+
Start	1	End	532
Name	OJ000320_25.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	15	End	431
GI	none	Score	123
Exons	15..224, 119..199, 243..431, 302..418		

Seq. No.	58237	Seq. ID	OJ000320_25.0419.C7
Gene No.	121720	Strand	+
Start	1	End	532
Name	OJ000320_25.0419.C7.o1.gs	Method	GENSCAN
Start	19	End	485
GI	none	Score	.88
Exons	19..87, 117..485		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121721	Strand	+
Start	1	End	1265
Name	OJ000320_25.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1265
GI	6815058	Score	274
Exons	1..237, 1086..1265		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121722	Strand	+
Start	2435	End	3121
Name	OJ000320_25.0419.C8.o1.gp	Method	AAT/GAP
Start	2435	End	3121
GI	54260_1.R1084	Score	787
Exons	2435..2576, 2647..2705, 2813..3121		

GI Descrip. '58067/emb|X52325|ARBLSKP 2.0e-13 pBluescript SK(+) vector DNA, phagemid excised from lambda ZAP'

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121723	Strand	+
Start	4750	End	6105
Name	OJ000320_25.0419.C8.o3.np	Method	AAT/NAP
Start	4750	End	6105
GI	6815059	Score	2337
Exons	4750..6105		

GI Descrip. (AP001080) Similar to geranylgeranyl hydrogenase. (AF069318) [Oryza sativa]

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121724	Strand	-
Start	6658	End	15244
Name	OJ000320_25.0419.C8.o2.gp	Method	AAT/GAP
Start	6388	End	7139
GI	none	Score	656
Exons	6388..6663, 7064..7139		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121724	Strand	-
Start	6658	End	15244
Name	OJ000320_25.0419.C8.o2.gs	Method	GENSCAN
Start	6658	End	15001
GI	none	Score	.62
Exons	6658..6663, 7064..7145, 7598..7716, 8516..8635, 8852..8922, 9340..9508, 10371..10597, 12622..12791, 12878..12990, 13057..13125, 13406..13483, 14129..14209, 14705..14761, 14891..15001		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121724	Strand	-
Start	6658	End	15244
Name	OJ000320_25.0419.C8.o4.np	Method	AAT/NAP
Start	7061	End	9487
GI	6815060	Score	815
Exons	7061..7145, 7598..7716, 8516..8635, 8852..8922, 9340..9487		

GI Descrip. (AP001080) EST C26994(C50622) corresponds to a region of the predicted gene.; Similar to ADP-ribosylation factor. (D17760) [Oryza sativa]

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121724	Strand	-
Start	6658	End	15244
Name	OJ000320_25.0419.C8.o3.gp	Method	AAT/GAP
Start	8445	End	10640
GI	18316_1.R1084	Score	692
Exons	8445..8635, 8852..8922, 9340..9508, 10544..10640		

GI Descrip. '1351974/sp|P49076|ARF_MAIZE 3.0e-59 ADP-RIBOSYLATION FACTOR >gi_1076788_pir__S49325 ADP-ribosylation factor - maize >gi_1076789_pir__S53486 ADP-ribosylation factor - maize >gi_556686_emb_CAA56351_ (X80042) ADP-ribosylation factor [Zea mays]'

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8

Gene No.	121724	Strand	-
Start	6658	End	15244
Name	OJ000320_25.0419.C8.o4.gp	Method	AAT/GAP
Start	11496	End	12226
GI	5003484	Score	1406
Exons	11496..12226		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121724	Strand	-
Start	6658	End	15244
Name	OJ000320_25.0419.C8.o5.np	Method	AAT/NAP
Start	12151	End	15244
GI	6815061	Score	1667
Exons	12151..12247, 12371..12449, 12622..12791, 12878..12990, 13057..13125, 13236..13319, 13406..13462, 13561..13623, 14705..14761, 14891..15244		
GI Descrip.	(AP001080) ESTs AU068633(C30614),AU068634(C30614) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana unknown protein. (AF049236) [Oryza sativa]		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o3.ts	Method	TBLASTX:Soybean
Start	1077	End	2514
GI	none	Score	216
Exons	1077..1268, 1080..1262, 1085..1270, 1878..1964, 1879..1965, 2288..2365, 2293..2355, 2434..2514, 2437..2508		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o5.tm	Method	TBLASTX:Maize
Start	1079	End	2696
GI	none	Score	283
Exons	1079..1270, 1080..1268, 1080..1271, 1878..1964, 1879..1965, 1880..1966, 2261..2365, 2275..2406, 2275..2373, 2434..2577, 2434..2586, 2441..2587, 2647..2691, 2648..2692, 2649..2696		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	4918	End	6042
GI	none	Score	274
Exons	4918..5208, 4926..5087, 5287..5553, 5289..5378, 5436..5552, 5611..6042, 5788..6012		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	4918	End	10287
GI	none	Score	275
Exons	4918..5217, 4932..5105, 5287..5391, 5289..5549, 5290..5760, 5602..5757, 5815..6042, 5860..6012, 10153..10287		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	4918	End	16030
GI	none	Score	290
Exons	4918..5214, 4923..5111, 5286..5375, 5287..5553, 5436..5552, 5602..5730, 5611..5766, 5788..6042, 5788..6012, 15879..15950, 15986..16030		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o4.tc	Method	TBLASTX:Cress
Start	7049	End	8974
GI	none	Score	89
Exons	7049..7144, 7062..7145, 7065..7145, 7597..7632, 7613..7699, 7624..7698, 7686..7727, 7690..7719, 8507..8638, 8514..8636, 8516..8638, 8586..8642, 8846..8974, 8852..8923, 8853..8924		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	7064	End	9527
GI	none	Score	89
Exons	7064..7144, 7065..7145, 7595..7717, 7595..7717, 7596..7718, 7597..7719, 8501..8638, 8515..8625, 8516..8638, 8586..8642, 8846..8974, 8853..8924, 9314..9493, 9315..9527, 9342..9494		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o6.tm	Method	TBLASTX:Maize
Start	7064	End	9500
GI	none	Score	133
Exons	7064..7144, 7065..7145, 7571..7717, 7595..7717, 7597..7719, 8498..8638, 8516..8638, 8586..8642, 8846..8974, 8853..8924, 9314..9499, 9315..9500		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	7064	End	8599
GI	none	Score	112
Exons	7064..7144, 7065..7145, 7065..7145, 7066..7146, 7075..7146, 7571..7717, 7583..7717, 7594..7719, 7597..7719, 8498..8599, 8516..8599		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	8601	End	9490
GI	none	Score	64
Exons	8601..8642, 8603..8638, 8842..8922, 8846..8974, 8853..8924,		

9314..9490, 9315..9488, 9344..9490

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o3.tc	Method	TBLASTX:Cress
Start	9322	End	9535
GI	none	Score	165
Exons	9322..9405, 9335..9532, 9339..9488, 9350..9535		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	12142	End	15049
GI	none	Score	66
Exons	12142..12249, 12143..12250, 12177..12251, 12180..12251, 12199..12252, 12371..12460, 12373..12450, 12602..12706, 12620..12790, 12621..12791, 12622..12789, 12740..12823, 12871..13044, 12877..13002, 13002..13034, 13045..13125, 13046..13126, 13228..13320, 13228..13320, 13379..13465, 13400..13471, 13549..13629, 13561..13626, 14700..14762, 14705..14764, 14705..14761, 14891..14914, 14891..15049, 14892..15038		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	12680	End	13469
GI	none	Score	84
Exons	12680..12787, 12877..12894, 12940..12990, 13054..13125, 13227..13322, 13231..13320, 13406..13462, 13425..13469		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o4.ts	Method	TBLASTX:Soybean
Start	12683	End	12993
GI	none	Score	66
Exons	12683..12790, 12684..12788, 12875..12991, 12877..12990, 12880..12993		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o3.gs	Method	GENSCAN
Start	15970	End	20912
GI	none	Score	.64
Exons	15970..16226, 16525..16864, 16942..17040, 17122..17467, 17511..17716, 17809..18000, 18077..18474, 18569..18839, 19111..19183, 19402..20912		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o6.np	Method	AAT/NAP

Start	15973	End	20912
GI	6815062	Score	6433
Exons	15973..16226, 16525..16864, 16942..17040, 17122..17467, 17511..17716, 17809..18000, 18077..18474, 18569..18839, 19111..19183, 19402..20912		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	16781	End	18245
GI	none	Score	67
Exons	16781..16879, 17122..17418, 17510..17536, 17543..17710, 17543..17710, 17791..17868, 17878..17919, 17941..18012, 18074..18244, 18081..18245		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o7.tm	Method	TBLASTX:Maize
Start	18248	End	18731
GI	none	Score	57
Exons	18248..18343, 18252..18347, 18353..18382, 18377..18484, 18399..18485, 18546..18731, 18553..18729		

Seq. No.	58238	Seq. ID	OJ000320_25.0419.C8
Gene No.	121725	Strand	-
Start	15970	End	20912
Name	OJ000320_25.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	20328	End	20871
GI	none	Score	39
Exons	20328..20693, 20348..20371, 20404..20694, 20712..20867, 20746..20871		

Seq. No.	58239	Seq. ID	OJ000320_25.0419.C9
Gene No.	121726	Strand	-
Start	120	End	464
Name	OJ000320_25.0419.C9.o1.gs	Method	GENSCAN
Start	120	End	464
GI	none	Score	.48
Exons	120..230, 309..464		

Seq. No.	58240	Seq. ID	OJ000320_25.0419.C14
Gene No.	121727	Strand	+
Start	1919	End	2533
Name	OJ000320_25.0419.C14.o1.gs	Method	GENSCAN
Start	1919	End	2533
GI	none	Score	1
Exons	1919..2533		

Seq. No.	58240	Seq. ID	OJ000320_25.0419.C14
Gene No.	121727	Strand	+
Start	1919	End	2533
Name	OJ000320_25.0419.C14.o1.np	Method	AAT/NAP

Start	1919	End	2530
GI	6815070	Score	1094
Exons	1919..2530		
GI Descrip.	(AP001080) EST AU070319(S10788) corresponds to a region of the predicted gene.; Similar to RING-H2 finger protein RHA2b (AC006200) [Oryza sativa]		

Seq. No.	58240	Seq. ID	OJ000320_25.0419.C14
Gene No.	121728	Strand	+
Start	2505	End	2895
Name	OJ000320_25.0419.C14.o1.gp	Method	AAT/GAP
Start	2505	End	2895
GI	5005157	Score	702
Exons	2505..2895		

Seq. No.	58241	Seq. ID	OJ000320_25.0419.C15
Gene No.	121729	Strand	+
Start	3569	End	3743
Name	OJ000320_25.0419.C15.o1.gp	Method	AAT/GAP
Start	3569	End	3743
GI	15870_2.R1084	Score	256
Exons	3569..3743		
GI Descrip.	'287403/dbj|D10838|RICSBE1 8.0e-69 Rice gene for starch branching enzyme'		

Seq. No.	58241	Seq. ID	OJ000320_25.0419.C15
Gene No.	121730	Strand	-
Start	850	End	2177
Name	OJ000320_25.0419.C15.o1.np	Method	AAT/NAP
Start	565	End	1415
GI	6815071	Score	269
Exons	565..702, 1386..1415		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	58241	Seq. ID	OJ000320_25.0419.C15
Gene No.	121730	Strand	-
Start	850	End	2177
Name	OJ000320_25.0419.C15.o1.gs	Method	GENSCAN
Start	850	End	2177
GI	none	Score	.91
Exons	850..905, 1386..1487, 2118..2177		

Seq. No.	58242	Seq. ID	OJ000320_25.0419.C16
Gene No.	121731	Strand	+
Start	173	End	1691
Name	OJ000320_25.0419.C16.o1.gs	Method	GENSCAN
Start	173	End	1652
GI	none	Score	.65
Exons	173..301, 506..586, 687..836, 912..965, 1285..1397, 1495..1652		

Seq. No.	58242	Seq. ID	OJ000320_25.0419.C16
Gene No.	121731	Strand	+
Start	173	End	1691
Name	OJ000320_25.0419.C16.o1.np	Method	AAT/NAP
Start	707	End	1691
GI	6815072	Score	756
Exons	707..836, 912..965, 1285..1397, 1495..1691		

GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa].		
Seq. No.	58243	Seq. ID	OJ000320_25.0419.C17
Gene No.	121732	Strand	+
Start	1	End	776
Name	OJ000320_25.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	776
GI	6815072	Score	1216
Exons	1..776		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		
Seq. No.	58243	Seq. ID	OJ000320_25.0419.C17
Gene No.	121732	Strand	+
Start	1	End	776
Name	OJ000320_25.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	12	End	331
GI	none	Score	106
Exons	12..155, 20..151, 167..331		
Seq. No.	58243	Seq. ID	OJ000320_25.0419.C17
Gene No.	121732	Strand	+
Start	1	End	776
Name	OJ000320_25.0419.C17.o1.gs	Method	GENSCAN
Start	245	End	608
GI	none	Score	.47
Exons	245..608		
Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121733	Strand	+
Start	812	End	4410
Name	OJ000320_25.0419.C18.o1.gs	Method	GENSCAN
Start	812	End	4410
GI	none	Score	.72
Exons	812..826, 1132..1225, 3575..3726, 3898..3955, 4319..4410		
Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121734	Strand	+
Start	6814	End	6923
Name	OJ000320_25.0419.C18.o1.gp	Method	AAT/GAP
Start	6814	End	6923
GI	207_3.R1084	Score	117
Exons	6814..6923		
GI Descrip.	'1617206/emb|CAA96570| 3.0e-29 (Z72489) CP12 [Pisum sativum]'		
Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121735	Strand	+
Start	8999	End	11975
Name	OJ000320_25.0419.C18.o2.np	Method	AAT/NAP
Start	8999	End	11809
GI	6630682	Score	1107
Exons	8999..9048, 9366..9592, 11415..11809		
GI Descrip.	(AP000969) EST D22716(C1010) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815074|dbj|BAA90361.1| (AP001080) EST D22716(C1010) corresponds to a region of the predicted gene.; hypothetical		

protein [Oryza sativa]

Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121735	Strand	+
Start	8999	End	11975
Name	OJ000320_25.0419.C18.o2.gp	Method	AAT/GAP
Start	11420	End	11975
GI	none	Score	975
Exons	11420..11975		

Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121736	Strand	-
Start	5170	End	6409
Name	OJ000320_25.0419.C18.o2.gs	Method	GENSCAN
Start	5170	End	6409
GI	none	Score	.73
Exons	5170..5444, 5790..5841, 5917..6262, 6390..6409		

Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121736	Strand	-
Start	5170	End	6409
Name	OJ000320_25.0419.C18.o1.np	Method	AAT/NAP
Start	5173	End	6262
GI	6630681	Score	1104
Exons	5173..5444, 5790..5841, 5917..6262		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6815073|dbj|BAA90360.1| (AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121737	Strand	-
Start	11411	End	14396
Name	OJ000320_25.0419.C18.o4.gs	Method	GENSCAN
Start	11411	End	14376
GI	none	Score	.55
Exons	11411..11830, 12101..12234, 12511..12594, 12924..12999, 13390..13551, 13679..13783, 14143..14376		

Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121737	Strand	-
Start	11411	End	14396
Name	OJ000320_25.0419.C18.o3.gp	Method	AAT/GAP
Start	12136	End	12524
GI	none	Score	725
Exons	12136..12524		

Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121737	Strand	-
Start	11411	End	14396
Name	OJ000320_25.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	12281	End	14376
GI	none	Score	119
Exons	12281..12397, 12282..12398, 12500..12595, 12506..12595, 12507..12596, 12511..12597, 12511..12597, 13388..13552, 13388..13549, 13390..13551, 14138..14245, 14140..14298, 14140..14298, 14329..14376, 14336..14374		

Seq. No.	58244	Seq. ID	OJ000320_25.0419.C18
Gene No.	121737	Strand	-
Start	11411	End	14396
Name	OJ000320_25.0419.C18.o3.np	Method	AAT/NAP
Start	12290	End	14396
GI	6630683	Score	956
Exons	12290..12394, 12511..12594, 13390..13551, 14143..14396		
GI Descrip.	(AP000969) EST C25991(C11435) corresponds to a region of the predicted gene.; Similar to similar to PHZF, catalyzing the hydroxylation of phenazine-1-carboxylic acid to 2-hydroxy-phenazine-1-carboxylic acid. (AC004044) [Oryza... gi|6815075|dbj|BAA90362.1| (AP001080) EST C25991(C11435) corresponds to a region of the predicted gene.; Similar to similar to PHZF, catalyzing		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121738	Strand	+
Start	187	End	548
Name	OJ000320_25.0419.C19.o1.gs	Method	GENSCAN
Start	187	End	548
GI	none	Score	.88
Exons	187..278, 407..548		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121739	Strand	-
Start	1	End	270
Name	OJ000320_25.0419.C19.o1.gp	Method	AAT/GAP
Start	1	End	270
GI	2309836	Score	291
Exons	1..75, 174..270		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121739	Strand	-
Start	1	End	270
Name	OJ000320_25.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	203
GI	6630683	Score	147
Exons	1..75, 174..203		
GI Descrip.	(AP000969) EST C25991(C11435) corresponds to a region of the predicted gene.; Similar to similar to PHZF, catalyzing the hydroxylation of phenazine-1-carboxylic acid to 2-hydroxy-phenazine-1-carboxylic acid. (AC004044) [Oryza... gi|6815075|dbj|BAA90362.1| (AP001080) EST C25991(C11435) corresponds to a region of the predicted gene.; Similar to similar to PHZF, catalyzing		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121740	Strand	-
Start	1092	End	3932
Name	OJ000320_25.0419.C19.o2.gp	Method	AAT/GAP
Start	1092	End	3873
GI	none	Score	934
Exons	1092..1355, 2285..2379, 2942..3100, 3827..3873		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121740	Strand	-
Start	1092	End	3932

Name	OJ000320_25.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1247	End	3101
GI	none	Score	120
Exons	1247..1357, 1251..1358, 2284..2379, 2293..2385, 2930..3100, 2943..3101		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121740	Strand	-
Start	1092	End	3932
Name	OJ000320_25.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	1250	End	3863
GI	none	Score	115
Exons	1250..1357, 1254..1358, 2284..2379, 2301..2378, 2302..2385, 2303..2380, 2930..3100, 2943..3101, 2945..3106, 3828..3863		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121740	Strand	-
Start	1092	End	3932
Name	OJ000320_25.0419.C19.o2.gs	Method	GENSCAN
Start	1250	End	3856
GI	none	Score	.81
Exons	1250..1355, 2285..2379, 2942..3100, 3355..3431, 3631..3856		

Seq. No.	58245	Seq. ID	OJ000320_25.0419.C19
Gene No.	121740	Strand	-
Start	1092	End	3932
Name	OJ000320_25.0419.C19.o2.np	Method	AAT/NAP
Start	1253	End	3932
GI	6630684	Score	557
Exons	1253..1355, 2285..2379, 2942..3100, 3827..3932		
GI Descrip.	(AP000969) ESTs AU070430(S15424), AU082086(E11580) correspond to a region of the predicted gene.; Similar to MF1. (AB011804) [Oryza sativa] gi|6815076|dbj|BAA90363.1| (AP001080) ESTs AU070430(S15424),AU082086(E11580) correspond to a region of the predicted gene.; Similar to MF1. (AB011804) [Oryza sativa]		

Seq. No.	58246	Seq. ID	OJ000320_25.0419.C20
Gene No.	121741	Strand	-
Start	1152	End	1218
Name	OJ000320_25.0419.C20.o1.gs	Method	GENSCAN
Start	1152	End	1218
GI	none	Score	.56
Exons	1152..1218		

Seq. No.	58247	Seq. ID	OJ000320_25.0419.C23
Gene No.	121742	Strand	-
Start	1	End	598
Name	OJ000320_25.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	595
GI	6006359	Score	59
Exons	1..20, 474..595		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	58247	Seq. ID	OJ000320_25.0419.C23
Gene No.	121742	Strand	-
Start	1	End	598
Name	OJ000320_25.0419.C23.o1.gs	Method	GENSCAN

Start	473	End	598
GI	none	Score	.76
Exons	473..598		

Seq. No.	58248	Seq. ID	OJ000320_25.0419.C25
Gene No.	121743	Strand	-
Start	4094	End	4945
Name	OJ000320_25.0419.C25.o1.np	Method	AAT/NAP
Start	4094	End	4945
GI	6815063	Score	644
Exons	4094..4141, 4476..4711, 4834..4945		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	58249	Seq. ID	OJ000320_25.0419.C28
Gene No.	121744	Strand	+
Start	1	End	959
Name	OJ000320_25.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	959
GI	7340868	Score	54
Exons	1..71, 254..419, 841..959		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	58250	Seq. ID	OJ000320_26.0419.C2
Gene No.	121745	Strand	-
Start	1	End	658
Name	OJ000320_26.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	658
GI	7229683	Score	221
Exons	1..151, 248..319, 466..658		
GI Descrip.	(AF234170) DMC1 protein [Hordeum vulgare]		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121746	Strand	+
Start	790	End	1842
Name	OJ000320_26.0419.C4.o1.gs	Method	GENSCAN
Start	790	End	1539
GI	none	Score	.96
Exons	790..956, 1068..1110, 1528..1539		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121746	Strand	+
Start	790	End	1842
Name	OJ000320_26.0419.C4.o2.gp	Method	AAT/GAP
Start	1379	End	1842
GI	none	Score	873
Exons	1379..1842		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121747	Strand	-
Start	171	End	882
Name	OJ000320_26.0419.C4.o1.gp	Method	AAT/GAP
Start	171	End	882
GI	none	Score	1173
Exons	171..405, 500..882		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121748	Strand	-

Start	1746	End	2333
Name	OJ000320_26.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	1628	End	2201
GI	none	Score	42
Exons	1628..1744, 1664..1708, 1701..1844, 1732..1851, 1735..1827, 1788..1847, 1898..2002, 1912..2004, 1913..2002, 2109..2201, 2110..2199, 2127..2201		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121748	Strand	-
Start	1746	End	2333
Name	OJ000320_26.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	1714	End	2205
GI	none	Score	109
Exons	1714..1827, 1715..1840, 1715..1843, 1737..1844, 1788..1847, 1898..2002, 1912..2004, 1913..2002, 1915..2004, 2109..2195, 2110..2205		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121748	Strand	-
Start	1746	End	2333
Name	OJ000320_26.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	1746	End	2201
GI	none	Score	46
Exons	1746..1844, 1788..1847, 1898..1999, 1912..2004, 1916..2002, 2109..2201, 2116..2199		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121748	Strand	-
Start	1746	End	2333
Name	OJ000320_26.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	1746	End	2199
GI	none	Score	49
Exons	1746..1844, 1768..1827, 1912..2004, 1913..2002, 2109..2198, 2116..2199		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121748	Strand	-
Start	1746	End	2333
Name	OJ000320_26.0419.C4.o2.gs	Method	GENSCAN
Start	1746	End	2198
GI	none	Score	.98
Exons	1746..1841, 1915..2001, 2112..2198		

Seq. No.	58251	Seq. ID	OJ000320_26.0419.C4
Gene No.	121748	Strand	-
Start	1746	End	2333
Name	OJ000320_26.0419.C4.o1.np	Method	AAT/NAP
Start	1802	End	2333
GI	7437846	Score	171
Exons	1802..1841, 1915..2001, 2112..2333		
GI Descrip.	probable long-chain-fatty-acid--CoA ligase (EC 6.2.1.3) - rape gi|1617274|emb|CAA96522.1| (Z72152) AMP-binding protein [Brassica napus]		

Seq. No.	58252	Seq. ID	OJ000320_26.0419.C5
Gene No.	121749	Strand	-

Start	835	End	1616
Name	OJ000320_26.0419.C5.o1.np	Method	AAT/NAP
Start	803	End	1616
GI	6671960	Score	227
Exons	803..910, 1106..1192, 1280..1401, 1579..1616		
GI Descrip.	(AC013454) putative long-chain-fatty-acid--CoA ligase [Arabidopsis thaliana]		

Seq. No.	58252	Seq. ID	OJ000320_26.0419.C5
Gene No.	121749	Strand	-
Start	835	End	1616
Name	OJ000320_26.0419.C5.o1.gs	Method	GENSCAN
Start	835	End	1403
GI	none	Score	.48
Exons	835..888, 1276..1403		

Seq. No.	58252	Seq. ID	OJ000320_26.0419.C5
Gene No.	121749	Strand	-
Start	835	End	1616
Name	OJ000320_26.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1095	End	1408
GI	none	Score	98
Exons	1095..1196, 1100..1192, 1266..1328, 1268..1327, 1317..1391, 1319..1390, 1327..1392, 1327..1404, 1328..1408		

Seq. No.	58252	Seq. ID	OJ000320_26.0419.C5
Gene No.	121749	Strand	-
Start	835	End	1616
Name	OJ000320_26.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1100	End	1393
GI	none	Score	150
Exons	1100..1213, 1101..1238, 1105..1236, 1108..1239, 1265..1327, 1276..1326, 1278..1328, 1319..1390, 1320..1391, 1327..1392, 1328..1393		

Seq. No.	58252	Seq. ID	OJ000320_26.0419.C5
Gene No.	121749	Strand	-
Start	835	End	1616
Name	OJ000320_26.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1100	End	1408
GI	none	Score	109
Exons	1100..1192, 1101..1196, 1280..1327, 1281..1328, 1324..1389, 1327..1404, 1328..1408		

Seq. No.	58253	Seq. ID	OJ000320_26.0419.C6
Gene No.	121750	Strand	-
Start	1	End	1657
Name	OJ000320_26.0419.C6.o1.gp	Method	AAT/GAP
Start	1	End	655
GI	none	Score	320
Exons	1..126, 612..655		

Seq. No.	58253	Seq. ID	OJ000320_26.0419.C6
Gene No.	121750	Strand	-
Start	1	End	1657
Name	OJ000320_26.0419.C6.o1.gs	Method	GENSCAN
Start	17	End	1652

GI	none	Score	.54
Exons	17..126, 612..773, 1027..1098, 1383..1652		

Seq. No.	58253	Seq. ID	OJ000320_26.0419.C6
Gene No.	121750	Strand	-
Start	1	End	1657
Name	OJ000320_26.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	1221	End	1657
GI	none	Score	77
Exons	1221..1292, 1222..1293, 1222..1290, 1319..1570, 1378..1572, 1380..1580, 1385..1573, 1437..1580, 1581..1655, 1581..1655, 1598..1657		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121751	Strand	+
Start	7953	End	12665
Name	OJ000320_26.0419.C7.o3.np	Method	AAT/NAP
Start	7953	End	12665
GI	6016691	Score	56
Exons	7953..8011, 9440..9493, 9686..9745, 12643..12665		
GI Descrip.	(AC009991) unknown protein [Arabidopsis thaliana]		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121752	Strand	-
Start	1006	End	9640
Name	OJ000320_26.0419.C7.o1.gs	Method	GENSCAN
Start	1006	End	9640
GI	none	Score	.78
Exons	1006..1332, 1677..1829, 1901..2023, 2184..2368, 2828..2917, 3579..3758, 4546..4689, 5865..6088, 6508..6900, 7311..7469, 7650..8045, 9282..9640		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121752	Strand	-
Start	1006	End	9640
Name	OJ000320_26.0419.C7.o1.np	Method	AAT/NAP
Start	1081	End	2409
GI	3023751	Score	247
Exons	1081..1332, 1677..1829, 1901..2023, 2193..2409		
GI Descrip.	70 KD PEPTIDYLPROLYL ISOMERASE (PEPTIDYLPROLYL CIS-TRANS ISOMERASE) (CYCLOPHILIN) (PPIASE) gi|1076772|pir||S55383 peptidylprolyl isomerase (EC 5.2.1.8) - wheat gi|854626|emb|CAA60505| (X86903) peptidylprolyl isomerase [Triticum aestivum]		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121752	Strand	-
Start	1006	End	9640
Name	OJ000320_26.0419.C7.o1.gp	Method	AAT/GAP
Start	3367	End	4817
GI	28763_1.R1084	Score	1224
Exons	3367..3758, 4546..4817		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121752	Strand	-

Start	1006	End	9640
Name	OJ000320_26.0419.C7.o2.np	Method	AAT/NAP
Start	6519	End	9463
GI	6862912	Score	1099
Exons	6519..6900, 7311..7469, 7650..8045, 9282..9463		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121752	Strand	-
Start	1006	End	9640
Name	OJ000320_26.0419.C7.o2.gp	Method	AAT/GAP
Start	6697	End	7432
GI	3090570	Score	414
Exons	6697..6900, 7311..7432		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1006	End	3762
GI	none	Score	357
Exons	1006..1332, 1007..1333, 1651..1830, 1674..1829, 1675..1830, 1896..2024, 1899..2015, 1900..2043, 1901..2026, 2184..2369, 2184..2399, 2231..2371, 2805..2918, 2806..2919, 3580..3762, 3581..3760		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	1021	End	1770
GI	none	Score	272
Exons	1021..1332, 1052..1333, 1651..1770, 1674..1769		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	1785	End	2375
GI	none	Score	69
Exons	1785..1826, 1785..1829, 1786..1830, 1910..2026, 1911..1940, 1961..2026, 2172..2375, 2172..2366, 2179..2367		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	2799	End	3751
GI	none	Score	93
Exons	2799..2918, 2830..2916, 3578..3751, 3580..3750		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	3602	End	3772
GI	none	Score	157

Exons	3602..3772, 3602..3745, 3607..3771		
Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	6576	End	6791
GI	none	Score	104
Exons	6576..6695, 6586..6687, 6693..6791		
Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o4.ts	Method	TBLASTX:Soybean
Start	6579	End	6884
GI	none	Score	84
Exons	6579..6695, 6610..6660, 6693..6773, 6846..6884		
Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	6654	End	7814
GI	none	Score	134
Exons	6654..6902, 6654..6902, 6655..6903, 6661..6903, 7262..7468, 7311..7469, 7649..7807, 7652..7807, 7653..7814		
Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	6846	End	7888
GI	none	Score	96
Exons	6846..6902, 7262..7471, 7311..7475, 7650..7718, 7652..7720, 7695..7886, 7697..7885, 7736..7888, 7776..7886		
Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	7579	End	9412
GI	none	Score	102
Exons	7579..7653, 7658..7720, 7799..7864, 7896..8048, 7898..8041, 9272..9412		
Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o4.tc	Method	TBLASTX:Cress
Start	7943	End	9445
GI	none	Score	88
Exons	7943..8026, 9266..9445, 9273..9380		
Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o3.tm	Method	TBLASTX:Maize

Start	9276	End	9551
GI	none	Score	131
Exons	9276..9404, 9281..9406, 9416..9445, 9500..9529, 9501..9551		

Seq. No.	58254	Seq. ID	OJ000320_26.0419.C7
Gene No.	121753	Strand	-
Start	11675	End	12400
Name	OJ000320_26.0419.C7.o2.gs	Method	GENSCAN
Start	11675	End	12400
GI	none	Score	.78
Exons	11675..11780, 12336..12400		

Seq. No.	58255	Seq. ID	OJ000320_26.0419.C8
Gene No.	121754	Strand	+
Start	543	End	4362
Name	OJ000320_26.0419.C8.o1.np	Method	AAT/NAP
Start	543	End	3413
GI	1922938	Score	1340
Exons	543..1343, 1809..1910, 2652..3413		
GI Descrip.	(AC000106) Similar to Caenorhabditis hypothetical protein CO7A9.11 (gb|Z29094). [Arabidopsis thaliana]		

Seq. No.	58255	Seq. ID	OJ000320_26.0419.C8
Gene No.	121754	Strand	+
Start	543	End	4362
Name	OJ000320_26.0419.C8.o1.gs	Method	GENSCAN
Start	735	End	4362
GI	none	Score	.79
Exons	735..1439, 2577..2651, 4252..4362		

Seq. No.	58255	Seq. ID	OJ000320_26.0419.C8
Gene No.	121754	Strand	+
Start	543	End	4362
Name	OJ000320_26.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	2645	End	3004
GI	none	Score	496
Exons	2645..3004, 2646..3002, 2849..3004		

Seq. No.	58255	Seq. ID	OJ000320_26.0419.C8
Gene No.	121754	Strand	+
Start	543	End	4362
Name	OJ000320_26.0419.C8.o1.gp	Method	AAT/GAP
Start	2672	End	3456
GI	45103_1.R1084	Score	1473
Exons	2672..3456		
GI Descrip.	'1922938 1.0e-77 (AC000106) Similar to Caenorhabditis hypothetical protein CO7A9.11 (gb_Z29094). [Arabidopsis thaliana]'		

Seq. No.	58255	Seq. ID	OJ000320_26.0419.C8
Gene No.	121754	Strand	+
Start	543	End	4362
Name	OJ000320_26.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	2942	End	3185
GI	none	Score	85
Exons	2942..3103, 2946..3185, 2954..3181		

Seq. No.	58255	Seq. ID	OJ000320_26.0419.C8
Gene No.	121754	Strand	+
Start	543	End	4362
Name	OJ000320_26.0419.C8.o3:tm	Method	TBLASTX:Maize
Start	3006	End	3185
GI	none	Score	118
Exons	3006..3107, 3032..3106, 3107..3184, 3108..3185		

Seq. No.	58255	Seq. ID	OJ000320_26.0419.C8
Gene No.	121754	Strand	+
Start	543	End	4362
Name	OJ000320_26.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	3186	End	3431
GI	none	Score	244
Exons	3186..3431, 3186..3377, 3188..3418		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121755	Strand	+
Start	156	End	398
Name	OJ000320_26.0419.C9.o1.gp	Method	AAT/GAP
Start	156	End	398
GI	15870_2.R1084	Score	298
Exons	156..398		
GI Descrip.	'287403/dbj|D10838|RICSBE1 8.0e-69 Rice gene for starch branching enzyme'		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121756	Strand	+
Start	2081	End	3022
Name	OJ000320_26.0419.C9.o1.gs	Method	GENSCAN
Start	2081	End	3022
GI	none	Score	.43
Exons	2081..2230, 2664..2830, 2866..3022		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121757	Strand	+
Start	4810	End	8554
Name	OJ000320_26.0419.C9.o2.gp	Method	AAT/GAP
Start	4580	End	8150
GI	1648_1.R1084	Score	1863
Exons	4580..5012, 6899..7139, 7273..7393, 7558..7667, 7829..8150		
GI Descrip.	'451193 1.0e-117 (L28008) wali7 [Triticum aestivum] >gi_1090845_prf__2019486B wali7 gene [Triticum aestivum]'		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121757	Strand	+
Start	4810	End	8554
Name	OJ000320_26.0419.C9.o2.gs	Method	GENSCAN
Start	4810	End	8554
GI	none	Score	.77
Exons	4810..5012, 6962..7217, 7273..7393, 7558..7667, 8441..8554		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121757	Strand	+
Start	4810	End	8554
Name	OJ000320_26.0419.C9.o1.np	Method	AAT/NAP
Start	4813	End	7945

GI	7489671	Score	943
Exons	4813..5012, 6899..7139, 7273..7393, 7558..7687, 7829..7945		
GI Descrip.	hypothetical protein wali7 - wheat (fragment) gi|451193|gb|AAC37416.1| (L28008) wali7 [Triticum aestivum] gi|1090845|prf||2019486B wali7 gene [Triticum aestivum]		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121757	Strand	+
Start	4810	End	8554
Name	OJ000320_26.0419.C9.o2.np	Method	AAT/NAP
Start	8338	End	8528
GI	6907084	Score	141
Exons	8338..8457, 8489..8528		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	4770	End	7673
GI	none	Score	144
Exons	4770..5012, 4801..5013, 6875..7054, 6896..7021, 6897..7112, 6898..7059, 7002..7139, 7079..7141, 7264..7395, 7281..7394, 7350..7433, 7556..7669, 7557..7673		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	4807	End	7673
GI	none	Score	166
Exons	4807..5013, 4809..5012, 6896..7030, 6897..7112, 7002..7139, 7079..7141, 7264..7395, 7272..7394, 7556..7669, 7557..7673		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o5.tm	Method	TBLASTX:Maize
Start	4807	End	7670
GI	none	Score	244
Exons	4807..5013, 4809..5012, 6884..6988, 6897..7016, 6984..7112, 7002..7118, 7261..7395, 7272..7394, 7278..7415, 7556..7669, 7557..7670, 7560..7670		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o3.np	Method	AAT/NAP
Start	8928	End	11878
GI	6016874	Score	2183
Exons	8928..9006, 9090..9227, 9292..9524, 9915..10074, 10468..10647, 10759..11098, 11603..11878		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9

Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	9276	End	9722
GI	none	Score	69
Exons	9276..9362, 9347..9556, 9348..9596, 9633..9689, 9684..9722		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o3.gp	Method	AAT/GAP
Start	9617	End	10125
GI	uC-osflcyp110c07b1	Score	962
Exons	9617..10125		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	9816	End	10130
GI	none	Score	65
Exons	9816..9890, 9903..10130, 9911..10129		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o4.tm	Method	TBLASTX:Maize
Start	10335	End	10717
GI	none	Score	246
Exons	10335..10616, 10346..10717		

Seq. No.	58256	Seq. ID	OJ000320_26.0419.C9
Gene No.	121758	Strand	+
Start	8928	End	11878
Name	OJ000320_26.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	10793	End	11036
GI	none	Score	282
Exons	10793..10951, 10803..11036		

Seq. No.	58257	Seq. ID	OJ000320_26.0419.C11
Gene No.	121759	Strand	+
Start	598	End	673
Name	OJ000320_26.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	16	End	383
GI	none	Score	133
Exons	16..204, 150..194, 193..381, 195..383		

Seq. No.	58257	Seq. ID	OJ000320_26.0419.C11
Gene No.	121759	Strand	+
Start	598	End	673
Name	OJ000320_26.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	25	End	288
GI	none	Score	131
Exons	25..195, 25..192, 219..287, 220..288		

Seq. No.	58257	Seq. ID	OJ000320_26.0419.C11
Gene No.	121759	Strand	+
Start	598	End	673
Name	OJ000320_26.0419.C11.o1.gs	Method	GENSCAN
Start	598	End	673
GI	none	Score	.93
Exons	598..673		

Seq. No.	58258	Seq. ID	OJ000320_26.0419.C13
Gene No.	121760	Strand	-
Start	1350	End	1475
Name	OJ000320_26.0419.C13.o1.gs	Method	GENSCAN
Start	1350	End	1475
GI	none	Score	.75
Exons	1350..1475		

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o1.np	Method	AAT/NAP
Start	110	End	1969
GI	7529723	Score	873
Exons	110..319, 448..547, 635..702, 852..947, 1086..1174, 1245..1389, 1583..1672, 1754..1828, 1919..1969		
GI Descrip.	(AL132969) pyruvate kinase-like protein [Arabidopsis thaliana]		

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	251	End	1813
GI	none	Score	89
Exons	251..325, 261..338, 448..549, 449..559, 620..709, 634..702, 849..950, 849..959, 850..954, 1072..1173, 1085..1171, 1086..1175, 1087..1182, 1106..1189, 1243..1377, 1255..1368, 1283..1396, 1283..1390, 1580..1675, 1581..1673, 1754..1813, 1755..1802		

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	251	End	891
GI	none	Score	90
Exons	251..325, 261..320, 263..325, 439..546, 448..549, 449..550, 617..709, 634..702, 828..887, 849..890, 850..891		

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	251	End	1828
GI	none	Score	94
Exons	251..325, 261..338, 439..537, 448..549, 449..559, 602..709, 634..702, 849..959, 850..954, 872..979, 1072..1173, 1079..1171, 1086..1175, 1087..1182, 1097..1210, 1243..1377, 1255..1371,		

1283..1396, 1283..1390, 1299..1403, 1572..1673; 1580..1678, 1581..1673, 1749..1826, 1749..1826, 1754..1828

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	251	End	1828
GI	none	Score	99
Exons	251..325, 261..338, 439..543, 448..549, 449..550, 602..709, 634..702, 636..710, 849..959, 850..948, 857..949, 1079..1174, 1084..1173, 1086..1175, 1087..1197, 1097..1183, 1243..1377, 1246..1371, 1283..1396, 1283..1390, 1284..1403, 1353..1415, 1580..1678, 1581..1673, 1582..1683, 1582..1704, 1749..1826, 1754..1828, 1755..1826		

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o1.gp	Method	AAT/GAP
Start	260	End	1829
GI	7253_1.R1084	Score	1240
Exons	260..319, 448..547, 635..702, 852..947, 1086..1174, 1245..1389, 1583..1672, 1754..1829		
GI Descrip.	'4581156/gb|AAD24640.1|AC006919_18 0.0e+00 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o1.gs	Method	GENSCAN
Start	260	End	1825
GI	none	Score	.96
Exons	260..319, 448..547, 635..702, 852..947, 1086..1174, 1245..1389, 1583..1672, 1754..1825		

Seq. No.	58259	Seq. ID	OJ000320_26.0419.C16
Gene No.	121761	Strand	-
Start	110	End	1969
Name	OJ000320_26.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	1349	End	1829
GI	none	Score	81
Exons	1349..1396, 1349..1390, 1353..1391, 1580..1678, 1581..1673, 1749..1823, 1753..1824, 1753..1827, 1754..1828, 1755..1829		

Seq. No.	58260	Seq. ID	OJ000320_26.0419.C17
Gene No.	121762	Strand	
Start	178	End	526
Name	OJ000320_26.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	178	End	526
GI	none	Score	82
Exons	178..399, 302..397, 400..525, 401..526		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121763	Strand	+
Start	1228	End	2449
Name	OJ000320_26.0419.C18.o1.gs	Method	GENSCAN

Start	1228	End	2449
GI	none	Score	.69
Exons	1228..1380, 2321..2449		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121764	Strand	+
Start	3218	End	3586
Name	OJ000320_26.0419.C18.o1.gp	Method	AAT/GAP
Start	3218	End	3586
GI	46068_1.R1084	Score	734
Exons	3218..3586		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o2.gs	Method	GENSCAN
Start	2676	End	11797
GI	none	Score	.4
Exons	2676..2742, 3671..5108, 5234..5309, 6053..6166, 7245..7366, 7686..7857, 10602..10630, 10756..10807, 11437..11492, 11662..11797		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o1.np	Method	AAT/NAP
Start	3670	End	5575
GI	6862917	Score	602
Exons	3670..4089, 4165..5108, 5234..5309, 5546..5575		
GI Descrip.	(AC018907) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o2.gp	Method	AAT/GAP
Start	4267	End	4666
GI	none	Score	796
Exons	4267..4666		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o3.gp	Method	AAT/GAP
Start	4676	End	6016
GI	26615_1.R1084	Score	1594
Exons	4676..5108, 5234..5309, 5546..5639, 5769..6016		
GI Descrip.	'4097573 2.0e-10 (U64917) GMFP7 [Glycine max]'		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	4884	End	5312
GI	none	Score	36
Exons	4884..4904, 4899..4931, 4899..4937, 4972..5109, 4975..5109,		

4976..5113, 5214..5312, 5233..5310

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	4884	End	5264
GI	none	Score	88
Exons	4884..4949, 4899..4934, 4939..4974, 4943..4963, 4972..5109, 4973..5113, 5214..5264, 5224..5262		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	4978	End	5319
GI	none	Score	94
Exons	4978..5109, 4979..5113, 5229..5312, 5233..5319		

Seq. No.	58261	Seq. ID	OJ000320_26.0419.C18
Gene No.	121765	Strand	-
Start	2676	End	11797
Name	OJ000320_26.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	4987	End	5312
GI	none	Score	116
Exons	4987..5109, 4991..5113, 5214..5312, 5215..5304		

Seq. No.	58262	Seq. ID	OJ000320_26.0419.C19
Gene No.	121766	Strand	-
Start	1154	End	1986
Name	OJ000320_26.0419.C19.o1.gs	Method	GENSCAN
Start	1154	End	1986
GI	none	Score	.44
Exons	1154..1529, 1742..1819, 1934..1986		

Seq. No.	58263	Seq. ID	OJ000320_26.0419.C20
Gene No.	121767	Strand	+
Start	762	End	1367
Name	OJ000320_26.0419.C20.o1.np	Method	AAT/NAP
Start	762	End	1367
GI	120537	Score	57
Exons	762..926, 1343..1367		
GI Descrip.	NADH-PLASTOQUINONE OXIDOREDUCTASE SUBUNIT I (FRXB PROTEIN) gi|65735|pir||FERZB ferredoxin 2[4Fe-4S] frxB - rice chloroplast gi|12054|emb|CAA33909| (X15901) 18kDa protein related to a subunit of NADH dehydroghenase [Oryza sativa] gi|226675|prf||1603356DC NADH dehydrogenase-like 18kD protein [Oryza sativa]		

Seq. No.	58263	Seq. ID	OJ000320_26.0419.C20
Gene No.	121768	Strand	-
Start	464	End	754
Name	OJ000320_26.0419.C20.o1.gs	Method	GENSCAN
Start	464	End	754
GI	none	Score	.58
Exons	464..754		

Seq. No.	58264	Seq. ID	OJ000320_26.0419.C21
Gene No.	121769	Strand	+
Start	173	End	1966
Name	OJ000320_26.0419.C21.o1.gs	Method	GENSCAN
Start	173	End	1902
GI	none	Score	.76
Exons	173..351, 808..893, 993..1135, 1209..1334, 1410..1679, 1808..1902		

Seq. No.	58264	Seq. ID	OJ000320_26.0419.C21
Gene No.	121769	Strand	+
Start	173	End	1966
Name	OJ000320_26.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	182	End	1948
GI	none	Score	58
Exons	182..259, 989..1162, 993..1124, 1202..1243, 1214..1333, 1222..1338, 1239..1346, 1239..1349, 1404..1520, 1404..1520, 1409..1525, 1444..1530, 1545..1679, 1559..1681, 1559..1702, 1802..1879, 1838..1879, 1881..1937, 1883..1948		

Seq. No.	58264	Seq. ID	OJ000320_26.0419.C21
Gene No.	121769	Strand	+
Start	173	End	1966
Name	OJ000320_26.0419.C21.o1.np	Method	AAT/NAP
Start	822	End	1966
GI	5803253	Score	380
Exons	822..899, 993..1126, 1239..1334, 1410..1679, 1808..1966		
GI Descrip.	(AP000399) ESTs AU068856(C50756),AU077979(C61370) correspond to a region of the predicted gene; similar to serine protease (AF097709) [Oryza sativa]		

Seq. No.	58265	Seq. ID	OJ000320_26.0419.C22
Gene No.	121770	Strand	+
Start	2815	End	3121
Name	OJ000320_26.0419.C22.o1.gp	Method	AAT/GAP
Start	2815	End	3121
GI	none	Score	551
Exons	2815..3121		

Seq. No.	58265	Seq. ID	OJ000320_26.0419.C22
Gene No.	121771	Strand	-
Start	2692	End	4761
Name	OJ000320_26.0419.C22.o2.gs	Method	GENSCAN
Start	2692	End	4761
GI	none	Score	.57
Exons	2692..2967, 3055..3157, 3699..3873, 4284..4350, 4690..4761		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121772	Strand	+
Start	131	End	1294
Name	OJ000320_26.0419.C23.o1.gs	Method	GENSCAN
Start	131	End	1294
GI	none	Score	.72
Exons	131..241, 696..831, 1161..1294		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121772	Strand	+

Start	131	End	1294
Name	OJ000320_26.0419.C23.o1.gp	Method	AAT/GAP
Start	811	End	1067
GI	none	Score	490
Exons	811..1067		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121773	Strand	+
Start	2889	End	4739
Name	OJ000320_26.0419.C23.o2.np	Method	AAT/NAP
Start	2889	End	4739
GI	6630739	Score	481
Exons	2889..2981, 4356..4739		
GI Descrip.	(AL132958) pectate lyase-like protein [Arabidopsis thaliana]		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121774	Strand	+
Start	7838	End	12250
Name	OJ000320_26.0419.C23.o3.np	Method	AAT/NAP
Start	7805	End	12250
GI	6671960	Score	813
Exons	7805..7952, 8474..8534, 8605..8682, 9188..9259, 9350..9431, 9587..9692, 9766..9842, 10408..10494, 11237..11326, 11423..11502, 11611..11704, 12186..12250		
GI Descrip.	(AC013454) putative long-chain-fatty-acid--CoA ligase [Arabidopsis thaliana]		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121774	Strand	+
Start	7838	End	12250
Name	OJ000320_26.0419.C23.o3.gs	Method	GENSCAN
Start	7838	End	12074
GI	none	Score	.67
Exons	7838..7952, 8465..8534, 8605..8682, 9350..9431, 10264..10308, 10408..10494, 11237..11326, 11423..11502, 11611..11704, 11958..12074		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121774	Strand	+
Start	7838	End	12250
Name	OJ000320_26.0419.C23.o3.gp	Method	AAT/GAP
Start	10409	End	11705
GI	LIB3432-052-P1-K1-A12	Score	593
Exons	10409..10494, 11237..11326, 11423..11502, 11611..11705		
GI Descrip.	'1617274/emb|CAA96522| 3.0e-67 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	3580
GI	3850581	Score	406
Exons	1..33, 1175..1282, 2198..2356, 2469..2551, 3015..3123, 3352..3425, 3526..3580		
GI Descrip.	(AC005278) EST gb|N96383 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o3.tm	Method	TBLASTX:Maize
Start	955	End	1323
GI	none	Score	112
Exons	955..1095, 958..1056, 960..1097, 966..1097, 1181..1288, 1181..1300, 1182..1301, 1186..1320, 1189..1323		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o4.tc	Method	TBLASTX:Cress
Start	1023	End	3423
GI	none	Score	69
Exons	1023..1106, 1181..1267, 1181..1267, 1182..1268, 2186..2356, 2199..2336, 2469..2552, 2470..2553, 3010..3141, 3013..3126, 3349..3423		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o3.ts	Method	TBLASTX:Soybean
Start	2198	End	3244
GI	none	Score	81
Exons	2198..2392, 2466..2552, 2467..2553, 3013..3147, 3014..3124, 3212..3244		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o5.tm	Method	TBLASTX:Maize
Start	2325	End	3583
GI	none	Score	37
Exons	2325..2357, 2465..2569, 2468..2551, 2469..2552, 2993..3112, 3006..3125, 3010..3126, 3010..3126, 3012..3137, 3014..3142, 3347..3424, 3347..3421, 3349..3438, 3512..3583		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o2.gs	Method	GENSCAN
Start	2460	End	4941
GI	none	Score	.54
Exons	2460..2551, 3015..3123, 3352..3425, 3514..3667, 4016..4249, 4345..4765, 4883..4941		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o2.gp	Method	AAT/GAP
Start	3013	End	3699
GI	LIB3431-040-P1-K2-F8	Score	656
Exons	3013..3123, 3352..3425, 3514..3699		
GI Descrip.	'3850581 1.0e-21 (AC005278) EST gb_N96383 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	4366	End	4737
GI	none	Score	533
Exons	4366..4737, 4380..4712, 4447..4737		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	4369	End	4665
GI	none	Score	293
Exons	4369..4659, 4371..4658, 4561..4665		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	4371	End	4737
GI	none	Score	476
Exons	4371..4736, 4372..4737, 4561..4737		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121775	Strand	-
Start	1	End	4941
Name	OJ000320_26.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	4377	End	4737
GI	none	Score	301
Exons	4377..4505, 4381..4617, 4545..4613, 4615..4737, 4617..4712		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121776	Strand	
Start	8447	End	10499
Name	OJ000320_26.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	8447	End	10499
GI	none	Score	60
Exons	8447..8533, 8468..8533, 8475..8534, 8476..8535, 8603..8680, 8610..8702, 8617..8688, 9182..9259, 9189..9260, 9189..9263, 9345..9431, 9350..9448, 9351..9431, 9584..9694, 9587..9700, 9761..9841, 9765..9875, 9768..9842, 10263..10316, 10264..10311, 10403..10495, 10407..10499, 10407..10499		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121776	Strand	
Start	8447	End	10499
Name	OJ000320_26.0419.C23.o3.tc	Method	TBLASTX:Cress
Start	8478	End	10494
GI	none	Score	90
Exons	8478..8528, 8479..8535, 8602..8682, 8603..8680, 9189..9260, 9191..9259, 9345..9422, 9347..9406, 9350..9427, 9351..9446, 9586..9693, 9586..9693, 9587..9694, 9596..9700, 9764..9823, 9765..9845, 9765..9830, 10270..10311, 10408..10494		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23

Gene No.	121777	Strand	
Start	11230	End	11706
Name	OJ000320_26.0419.C23.o2.tc	Method	TBLASTX:Cress
Start	11230	End	11706
GI	none	Score	144
Exons	11230..11325, 11231..11326, 11263..11328, 11419..11502, 11420..11503, 11422..11505, 11612..11704, 11614..11706		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121777	Strand	
Start	11230	End	11706
Name	OJ000320_26.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	11230	End	11706
GI	none	Score	136
Exons	11230..11325, 11234..11326, 11420..11503, 11443..11502, 11612..11704, 11623..11706		

Seq. No.	58266	Seq. ID	OJ000320_26.0419.C23
Gene No.	121777	Strand	
Start	11230	End	11706
Name	OJ000320_26.0419.C23.o4.tm	Method	TBLASTX:Maize
Start	11284	End	11706
GI	none	Score	77
Exons	11284..11325, 11285..11326, 11286..11330, 11287..11328, 11419..11505, 11420..11566, 11574..11705, 11611..11706, 11612..11704		

Seq. No.	58267	Seq. ID	OJ000320_26.0419.C24
Gene No.	121778	Strand	+
Start	545	End	805
Name	OJ000320_26.0419.C24.o1.np	Method	AAT/NAP
Start	545	End	805
GI	6063557	Score	199
Exons	545..805		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	58267	Seq. ID	OJ000320_26.0419.C24
Gene No.	121779	Strand	-
Start	459	End	767
Name	OJ000320_26.0419.C24.o1.gs	Method	GENSCAN
Start	459	End	767
GI	none	Score	.97
Exons	459..767		

Seq. No.	58268	Seq. ID	OJ000330_26.0419.C1
Gene No.	121780	Strand	-
Start	146	End	429
Name	OJ000330_26.0419.C1.o1.gp	Method	AAT/GAP
Start	146	End	429
GI	LIB3477-003-P1-K1-E9	Score	90
Exons	146..209, 393..429		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	58269	Seq. ID	OJ000330_26.0419.C2
Gene No.	121781	Strand	+

Start	408	End	1314
Name	OJ000330_26.0419.C2.o1.gp	Method	AAT/GAP
Start	408	End	995
GI	2310235	Score	308
Exons	408..445, 856..995		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	58269	Seq. ID	OJ000330_26.0419.C2
Gene No.	121781	Strand	+
Start	408	End	1314
Name	OJ000330_26.0419.C2.o1.gs	Method	GENSCAN
Start	856	End	1314
GI	none	Score	.8
Exons	856..1314		

Seq. No.	58269	Seq. ID	OJ000330_26.0419.C2
Gene No.	121781	Strand	+
Start	408	End	1314
Name	OJ000330_26.0419.C2.o1.np	Method	AAT/NAP
Start	856	End	1185
GI	5852182	Score	440
Exons	856..1185		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	58270	Seq. ID	OJ000330_26.0419.C3
Gene No.	121782	Strand	+
Start	1	End	1653
Name	OJ000330_26.0419.C3.o1.gp	Method	AAT/GAP
Start	1	End	1653
GI	342_1.R1084	Score	2992
Exons	1..1653		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	58270	Seq. ID	OJ000330_26.0419.C3
Gene No.	121782	Strand	+
Start	1	End	1653
Name	OJ000330_26.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1424
GI	6742729	Score	2293
Exons	1..1424		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	58270	Seq. ID	OJ000330_26.0419.C3
Gene No.	121782	Strand	+
Start	1	End	1653
Name	OJ000330_26.0419.C3.o1.gs	Method	GENSCAN
Start	70	End	1647
GI	none	Score	.86
Exons	70..1647		

Seq. No.	58270	Seq. ID	OJ000330_26.0419.C3
Gene No.	121782	Strand	+
Start	1	End	1653
Name	OJ000330_26.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	180	End	590

GI	none	Score	87
Exons	180..230, 181..243, 249..431, 253..471, 499..588, 504..590, 505..588		

Seq. No.	58270	Seq. ID	OJ000330_26.0419.C3
Gene No.	121782	Strand	+
Start	1	End	1653
Name	OJ000330_26.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	591	End	1650
GI	none	Score	339
Exons	591..1316, 591..1493, 592..1509, 1504..1548, 1508..1543, 1551..1646, 1555..1614, 1594..1650		

Seq. No.	58270	Seq. ID	OJ000330_26.0419.C3
Gene No.	121782	Strand	+
Start	1	End	1653
Name	OJ000330_26.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	634	End	948
GI	none	Score	322
Exons	634..948, 645..920, 718..948		

Seq. No.	58270	Seq. ID	OJ000330_26.0419.C3
Gene No.	121782	Strand	+
Start	1	End	1653
Name	OJ000330_26.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	875	End	1326
GI	none	Score	167
Exons	875..1057, 879..1316, 879..1322, 883..1326, 889..1326		

Seq. No.	58271	Seq. ID	OJ000330_26.0419.C4
Gene No.	121783	Strand	+
Start	91	End	4247
Name	OJ000330_26.0419.C4.o1.gs	Method	GENSCAN
Start	91	End	4224
GI	none	Score	.5
Exons	91..183, 570..1991, 2066..2207, 2257..3163, 3272..3445, 3542..3652, 3738..3810, 4081..4224		

Seq. No.	58271	Seq. ID	OJ000330_26.0419.C4
Gene No.	121783	Strand	+
Start	91	End	4247
Name	OJ000330_26.0419.C4.o1.np	Method	AAT/NAP
Start	555	End	4247
GI	4680204	Score	1030
Exons	555..1991, 2066..3163, 3272..3445, 3542..3672, 4026..4247		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	58271	Seq. ID	OJ000330_26.0419.C4
Gene No.	121784	Strand	+
Start	4516	End	4694
Name	OJ000330_26.0419.C4.o1.gp	Method	AAT/GAP
Start	4516	End	4694
GI	21474_1.R1084	Score	195
Exons	4516..4546, 4579..4694		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58271	Seq. ID	OJ000330_26.0419.C4
Gene No.	121785	Strand	+
Start	4692	End	4964
Name	OJ000330_26.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	1198	End	1601
GI	none	Score	62
Exons	1198..1338, 1198..1314, 1200..1436, 1200..1379, 1301..1468, 1431..1601		

Seq. No.	58271	Seq. ID	OJ000330_26.0419.C4
Gene No.	121785	Strand	+
Start	4692	End	4964
Name	OJ000330_26.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	3090	End	3611
GI	none	Score	60
Exons	3090..3170, 3261..3440, 3308..3433, 3540..3611		

Seq. No.	58271	Seq. ID	OJ000330_26.0419.C4
Gene No.	121785	Strand	+
Start	4692	End	4964
Name	OJ000330_26.0419.C4.o2.gp	Method	AAT/GAP
Start	4692	End	4964
GI	LIB3477-003-P1-K1-E9	Score	143
Exons	4692..4805, 4938..4964		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	58272	Seq. ID	OJ000330_26.0419.C5
Gene No.	121786	Strand	+
Start	92	End	146
Name	OJ000330_26.0419.C5.o1.gp	Method	AAT/GAP
Start	92	End	146
GI	77434_1.R1084	Score	87
Exons	92..146		
GI Descrip.	'2827528/emb|CAA16536.1| 2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'		

Seq. No.	58272	Seq. ID	OJ000330_26.0419.C5
Gene No.	121787	Strand	-
Start	1975	End	3036
Name	OJ000330_26.0419.C5.o1.gs	Method	GENSCAN
Start	1975	End	3036
GI	none	Score	.66
Exons	1975..2071, 2164..2265, 2939..3036		

Seq. No.	58273	Seq. ID	OJ000330_26.0419.C6
Gene No.	121788	Strand	-
Start	1581	End	1886
Name	OJ000330_26.0419.C6.o1.gs	Method	GENSCAN
Start	1581	End	1886
GI	none	Score	.89
Exons	1581..1886		

Seq. No.	58274	Seq. ID	OJ000330_26.0419.C7
Gene No.	121789	Strand	+
Start	1	End	3040

Name	OJ000330_26.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	3001
GI	7452041	Score	1440
Exons	1..117, 1074..1412, 2252..3001		
GI Descrip.	hypothetical protein F23K16.80 - Arabidopsis thaliana gi|5042161|emb|CAB44680.1| (AL078620) hypothetical protein [Arabidopsis thaliana] gi|7270929|emb|CAB80608.1| (AL161595) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58274	Seq. ID	OJ000330_26.0419.C7
Gene No.	121789	Strand	+
Start	1	End	3040
Name	OJ000330_26.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1	End	3040
GI	none	Score	216
Exons	1..120, 3..122, 1035..1403, 1045..1422, 1073..1402, 2251..2460, 2252..2518, 2252..2524, 2490..2645, 2492..3010, 2518..3018, 2519..3040		

Seq. No.	58274	Seq. ID	OJ000330_26.0419.C7
Gene No.	121789	Strand	+
Start	1	End	3040
Name	OJ000330_26.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	1	End	3024
GI	none	Score	201
Exons	1..120, 3..122, 1035..1307, 1045..1311, 1048..1140, 1073..1312, 1284..1403, 1304..1402, 2251..2313, 2252..2368, 2255..2347, 2325..2522, 2342..3001, 2343..2639, 2354..2827, 2509..3003, 2736..3014, 2737..2895, 2876..3004, 2956..3024		

Seq. No.	58274	Seq. ID	OJ000330_26.0419.C7
Gene No.	121789	Strand	+
Start	1	End	3040
Name	OJ000330_26.0419.C7.o1.gp	Method	AAT/GAP
Start	2340	End	2647
GI	LIB3474-003-P1-K1-D3	Score	604
Exons	2340..2647		
GI Descrip.	'5042161/emb|CAB44680.1| 2.0e-30 (AL078620) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121790	Strand	+
Start	993	End	2933
Name	OJ000330_26.0419.C8.o1.gs	Method	GENSCAN
Start	993	End	2889
GI	none	Score	.87
Exons	993..1283, 1307..1402, 1530..1651, 1751..1946, 2164..2281, 2388..2435, 2580..2680, 2782..2889		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121790	Strand	+
Start	993	End	2933
Name	OJ000330_26.0419.C8.o1.np	Method	AAT/NAP
Start	1029	End	2933
GI	7488653	Score	864
Exons	1029..1402, 1530..1651, 1751..1946, 2164..2281, 2388..2435, 2580..2680, 2782..2933		

GI Descrip. choline kinase (EC 2.7.1.32) CK2 - soybean
gi|1438881|gb|AAC49375.1| (U43839) GmCK2p [Glycine max]

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	918	End	1301
GI	none	Score	40
Exons	918..968, 943..972, 1044..1205, 1046..1204, 1244..1300, 1245..1301		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	1074	End	1402
GI	none	Score	92
Exons	1074..1205, 1242..1280, 1301..1402		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1077	End	2883
GI	none	Score	87
Exons	1077..1205, 1245..1295, 1301..1402, 1524..1652, 1592..1654, 1745..1948, 1746..1946, 2115..2282, 2158..2283, 2164..2298, 2387..2443, 2566..2679, 2579..2680, 2794..2850, 2800..2883		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	1301	End	2686
GI	none	Score	175
Exons	1301..1402, 1381..1407, 1521..1652, 1533..1649, 1580..1651, 1746..1946, 1747..1977, 1747..1782, 1748..1948, 1958..1996, 2154..2279, 2158..2280, 2165..2281, 2395..2472, 2396..2443, 2576..2650, 2578..2649, 2585..2668, 2630..2686, 2651..2686		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	2164	End	2886
GI	none	Score	191
Exons	2164..2283, 2164..2298, 2171..2296, 2184..2318, 2186..2308, 2584..2682, 2585..2680, 2794..2856, 2799..2858, 2800..2886		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	2230	End	2877
GI	none	Score	75
Exons	2230..2280, 2390..2443, 2576..2680, 2581..2682, 2793..2858,		

2794..2853, 2797..2877, 2798..2854

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o2.gs	Method	GENSCAN
Start	3287	End	7618
GI	none	Score	.72
Exons	3287..3346, 3620..3769, 3903..3918, 3933..4042, 4133..4222, 4332..4470, 5012..5130, 5378..5445, 6295..6343, 6599..7618		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o2.np	Method	AAT/NAP
Start	3736	End	7612
GI	6119544	Score	1418
Exons	3736..3828, 3974..4042, 4133..4222, 4332..4470, 5012..5130, 5378..5445, 6295..6343, 6599..7612		
GI Descrip.	(AC011560) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	4398	End	7105
GI	none	Score	65
Exons	4398..4469, 4403..4468, 4422..4469, 5010..5135, 5011..5133, 5377..5448, 5378..5446, 6293..6343, 6585..6731, 6588..7085, 6590..7105, 6598..7104		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o3.ts	Method	TBLASTX:Soybean
Start	6592	End	6793
GI	none	Score	68
Exons	6592..6681, 6596..6793, 6596..6775, 6598..6792		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	6793	End	7186
GI	none	Score	321
Exons	6793..6957, 6794..7063, 6800..7081, 7055..7186, 7057..7185, 7064..7186		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	7106	End	7615
GI	none	Score	353
Exons	7106..7339, 7113..7271, 7114..7335, 7416..7556, 7486..7569, 7487..7567, 7573..7614, 7574..7615		

Seq. No.	58275	Seq. ID	OJ000330_26.0419.C8
Gene No.	121791	Strand	+
Start	3287	End	7622
Name	OJ000330_26.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	7434	End	7622
GI	none	Score	142
Exons	7434..7622, 7487..7615, 7512..7616		

Seq. No.	58276	Seq. ID	OJ000330_26.0419.C9
Gene No.	121792	Strand	-
Start	1	End	530
Name	OJ000330_26.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	530
GI	4204695	Score	123
Exons	1..36, 380..530		
GI Descrip.	(AF117062) putative inositol polyphosphate 5-phosphatase At5P1 [Arabidopsis thaliana]		

Seq. No.	58276	Seq. ID	OJ000330_26.0419.C9
Gene No.	121792	Strand	-
Start	1	End	530
Name	OJ000330_26.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	354	End	530
GI	none	Score	162
Exons	354..530, 373..525		

Seq. No.	58276	Seq. ID	OJ000330_26.0419.C9
Gene No.	121792	Strand	-
Start	1	End	530
Name	OJ000330_26.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	373	End	530
GI	none	Score	123
Exons	373..516, 381..530		

Seq. No.	58276	Seq. ID	OJ000330_26.0419.C9
Gene No.	121792	Strand	-
Start	1	End	530
Name	OJ000330_26.0419.C9.o1.gs	Method	GENSCAN
Start	382	End	524
GI	none	Score	.68
Exons	382..524		

Seq. No.	58277	Seq. ID	OJ000330_26.0419.C11
Gene No.	121793	Strand	+
Start	606	End	824
Name	OJ000330_26.0419.C11.o1.gs	Method	GENSCAN
Start	606	End	824
GI	none	Score	.68
Exons	606..824		

Seq. No.	58277	Seq. ID	OJ000330_26.0419.C11
Gene No.	121794	Strand	-
Start	1364	End	2713
Name	OJ000330_26.0419.C11.o2.gs	Method	GENSCAN
Start	1364	End	2713
GI	none	Score	.69
Exons	1364..1492, 1780..2048, 2306..2357, 2624..2713		

Seq. No.	58278	Seq. ID	OJ000330_26.0419.C14
Gene No.	121795	Strand	+
Start	498	End	1382
Name	OJ000330_26.0419.C14.o1.np	Method	AAT/NAP
Start	498	End	1382
GI	1272347	Score	223
Exons	498..563, 599..728, 897..1382		
GI Descrip.	(U51739) secreted glycoprotein 2 [Ipomoea trifida]		

Seq. No.	58278	Seq. ID	OJ000330_26.0419.C14
Gene No.	121795	Strand	+
Start	498	End	1382
Name	OJ000330_26.0419.C14.o1.gs	Method	GENSCAN
Start	546	End	1164
GI	none	Score	.77
Exons	546..681, 920..1164		

Seq. No.	58279	Seq. ID	OJ000330_26.0419.C15
Gene No.	121796	Strand	+
Start	123	End	2264
Name	OJ000330_26.0419.C15.o1.gs	Method	GENSCAN
Start	123	End	2264
GI	none	Score	.72
Exons	123..476, 623..868, 2196..2264		

Seq. No.	58279	Seq. ID	OJ000330_26.0419.C15
Gene No.	121797	Strand	-
Start	2195	End	2530
Name	OJ000330_26.0419.C15.o1.gp	Method	AAT/GAP
Start	2195	End	2530
GI	1631515	Score	585
Exons	2195..2530		

Seq. No.	58279	Seq. ID	OJ000330_26.0419.C15
Gene No.	121798	Strand	-
Start	2484	End	2975
Name	OJ000330_26.0419.C15.o2.gp	Method	AAT/GAP
Start	2484	End	2706
GI	3273_1.R1084	Score	375
Exons	2484..2706		
GI Descrip.	'2199574 3.0e-09 (AF004293) aquaporin [Brassica rapa]'		

Seq. No.	58279	Seq. ID	OJ000330_26.0419.C15
Gene No.	121798	Strand	-
Start	2484	End	2975
Name	OJ000330_26.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	2551	End	2706
GI	none	Score	69
Exons	2551..2610, 2576..2635, 2591..2638, 2634..2702, 2636..2704, 2638..2703, 2638..2706		

Seq. No.	58279	Seq. ID	OJ000330_26.0419.C15
Gene No.	121798	Strand	-
Start	2484	End	2975
Name	OJ000330_26.0419.C15.o1.np	Method	AAT/NAP
Start	2552	End	2975

GI	6721176	Score	132
Exons	2552..2706, 2956..2975		
GI Descrip.	(AC016829) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58280	Seq. ID	OJ000330_26.0419.C16
Gene No.	121799	Strand	+
Start	200	End	1767
Name	OJ000330_26.0419.C16.o1.gs	Method	GENSCAN
Start	200	End	1767
GI	none	Score	.46
Exons	200..236, 1640..1767		

Seq. No.	58280	Seq. ID	OJ000330_26.0419.C16
Gene No.	121800	Strand	-
Start	3585	End	3764
Name	OJ000330_26.0419.C16.o1.gp	Method	AAT/GAP
Start	3585	End	3764
GI	3273_1.R1084	Score	333
Exons	3585..3764		
GI Descrip.	'2199574 3.0e-09 (AF004293) aquaporin [Brassica rapa]'		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121801	Strand	+
Start	1	End	4033
Name	OJ000330_26.0419.C19.o1.gp	Method	AAT/GAP
Start	1	End	4033
GI	963_1.R1084	Score	5221
Exons	1..158, 957..2453, 2557..2623, 2824..3042, 3160..3252, 3345..4033		
GI Descrip.	'5912299/emb|CAB56058.1| 0.0e+00 (AJ133787) gigantea homologue [Oryza sativa]'		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121801	Strand	+
Start	1	End	4033
Name	OJ000330_26.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	3647
GI	5912299	Score	3695
Exons	1..158, 957..2453, 2557..2623, 2824..3042, 3160..3252, 3345..3647		
GI Descrip.	(AJ133787) gigantea homologue [Oryza sativa]		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121801	Strand	+
Start	1	End	4033
Name	OJ000330_26.0419.C19.o1.gs	Method	GENSCAN
Start	6	End	3650
GI	none	Score	.84
Exons	6..158, 909..2453, 2824..3042, 3345..3650		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	1	End	162
GI	none	Score	257
Exons	1..144, 3..161, 46..162		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	2	End	1307
GI	none	Score	225
Exons	2..94, 3..161, 6..161, 954..1307, 959..1285		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	948	End	1403
GI	none	Score	742
Exons	948..1403, 953..1402		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	1152	End	1595
GI	none	Score	208
Exons	1152..1298, 1152..1277, 1154..1291, 1311..1550, 1322..1474, 1461..1595, 1553..1594		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1314	End	2291
GI	none	Score	236
Exons	1314..1514, 1319..1516, 1327..1545, 1533..2069, 1548..1760, 1553..2056, 2220..2291		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1655	End	3667
GI	none	Score	647
Exons	1655..2059, 1656..2105, 1656..2069, 1657..2070, 2064..2453, 2068..2454, 2082..2456, 2096..2455, 2578..2619, 2580..2630, 2580..2624, 2581..2631, 2816..3037, 2821..3045, 2823..3044, 3153..3251, 3157..3252, 3159..3290, 3163..3258, 3339..3479, 3344..3475, 3460..3567, 3471..3662, 3473..3667, 3479..3667		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o3.ts	Method	TBLASTX:Soybean
Start	2403	End	3634
GI	none	Score	64
Exons	2403..2456, 2579..2629, 2820..2930, 2821..2955, 2821..2946, 2823..2966, 2955..3038, 2956..3045, 3153..3251, 3157..3252, 3339..3455, 3344..3430, 3504..3632, 3506..3634		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	2872	End	3434
GI	none	Score	264
Exons	2872..3069, 2874..3044, 3150..3251, 3157..3252, 3339..3434, 3344..3433		

Seq. No.	58281	Seq. ID	OJ000330_26.0419.C19
Gene No.	121802	Strand	-
Start	4980	End	6105
Name	OJ000330_26.0419.C19.o2.gs	Method	GENSCAN
Start	4980	End	6105
GI	none	Score	.51
Exons	4980..5089, 6039..6105		

Seq. No.	58282	Seq. ID	OJ000330_26.0419.C20
Gene No.	121803	Strand	+
Start	201	End	2222
Name	OJ000330_26.0419.C20.o1.gs	Method	GENSCAN
Start	201	End	2222
GI	none	Score	.9
Exons	201..368, 673..878, 976..1214, 1316..1511, 1592..1975, 2031..2222		

Seq. No.	58282	Seq. ID	OJ000330_26.0419.C20
Gene No.	121803	Strand	+
Start	201	End	2222
Name	OJ000330_26.0419.C20.o1.np	Method	AAT/NAP
Start	814	End	1891
GI	4883612	Score	185
Exons	814..878, 976..1139, 1316..1891		
GI Descrip.	(AC006922) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58282	Seq. ID	OJ000330_26.0419.C20
Gene No.	121803	Strand	+
Start	201	End	2222
Name	OJ000330_26.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	822	End	1221
GI	none	Score	54
Exons	822..875, 979..1215, 982..1221, 984..1220		

Seq. No.	58282	Seq. ID	OJ000330_26.0419.C20
Gene No.	121803	Strand	+
Start	201	End	2222
Name	OJ000330_26.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	1087	End	1664
GI	none	Score	180
Exons	1087..1227, 1089..1211, 1301..1498, 1305..1484, 1316..1492, 1589..1663, 1589..1663, 1596..1664		

Seq. No.	58283	Seq. ID	OJ000330_26.0419.C21
Gene No.	121804	Strand	+
Start	159	End	487
Name	OJ000330_26.0419.C21.o1.gs	Method	GENSCAN
Start	159	End	487

GI	none	Score	.68
Exons	159..487		
Seq. No.	58284	Seq. ID	OJ000330_26.0419.C23
Gene No.	121805	Strand	+
Start	99	End	188
Name	OJ000330_26.0419.C23.o1.gs	Method	GENSCAN
Start	99	End	188
GI	none	Score	.96
Exons	99..188		
Seq. No.	58285	Seq. ID	OJ000330_26.0419.C25
Gene No.	121806	Strand	-
Start	124	End	230
Name	OJ000330_26.0419.C25.o1.gp	Method	AAT/GAP
Start	124	End	230
GI	none	Score	184
Exons	124..230		
Seq. No.	58285	Seq. ID	OJ000330_26.0419.C25
Gene No.	121807	Strand	-
Start	459	End	650
Name	OJ000330_26.0419.C25.o1.gs	Method	GENSCAN
Start	459	End	650
GI	none	Score	.64
Exons	459..650		
Seq. No.	58286	Seq. ID	OJ000330_26.0419.C26
Gene No.	121808	Strand	+
Start	911	End	1283
Name	OJ000330_26.0419.C26.o2.gp	Method	AAT/GAP
Start	911	End	1283
GI	LIB3431-028-P1-N1-A10	Score	655
Exons	911..981, 1009..1283		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		
Seq. No.	58286	Seq. ID	OJ000330_26.0419.C26
Gene No.	121809	Strand	-
Start	42	End	1283
Name	OJ000330_26.0419.C26.o1.gp	Method	AAT/GAP
Start	42	End	1283
GI	342_1.R1084	Score	1767
Exons	42..557, 667..764, 847..866, 902..1283		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		
Seq. No.	58286	Seq. ID	OJ000330_26.0419.C26
Gene No.	121809	Strand	-
Start	42	End	1283
Name	OJ000330_26.0419.C26.o1.gs	Method	GENSCAN
Start	974	End	1242
GI	none	Score	.91
Exons	974..1046, 1103..1242		
Seq. No.	58286	Seq. ID	OJ000330_26.0419.C26
Gene No.	121809	Strand	-

Start	42	End	1283
Name	OJ000330_26.0419.C26.o1.np	Method	AAT/NAP
Start	995	End	1283
GI	4680203	Score	226
Exons	995..1283		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	58287	Seq. ID	OJ000330_26.0419.C29
Gene No.	121810	Strand	-
Start	31	End	281
Name	OJ000330_26.0419.C29.o1.gs	Method	GENSCAN
Start	31	End	281
GI	none	Score	.99
Exons	31..91, 114..281		

Seq. No.	58287	Seq. ID	OJ000330_26.0419.C29
Gene No.	121810	Strand	-
Start	31	End	281
Name	OJ000330_26.0419.C29.o1.np	Method	AAT/NAP
Start	113	End	281
GI	7486052	Score	171
Exons	113..281		
GI Descrip.	hypothetical protein F23K16.40 - Arabidopsis thaliana gi|5042157|emb|CAB44676.1| (AL078620) putative WRKY DNA-binding protein [Arabidopsis thaliana] gi|7270925|emb|CAB80604.1| (AL161595) putative WRKY DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	58288	Seq. ID	OJ000330_26.0419.C31
Gene No.	121811	Strand	+
Start	804	End	1185
Name	OJ000330_26.0419.C31.o1.gs	Method	GENSCAN
Start	804	End	1137
GI	none	Score	.92
Exons	804..1137		

Seq. No.	58288	Seq. ID	OJ000330_26.0419.C31
Gene No.	121811	Strand	+
Start	804	End	1185
Name	OJ000330_26.0419.C31.o1.np	Method	AAT/NAP
Start	804	End	1185
GI	7239498	Score	323
Exons	804..1185		
GI Descrip.	(AC012654) Contains similarity to the inositol-1,4,5-trisphosphate 5-Phosphatase from Arabidopsis thaliana gi|6117853		

Seq. No.	58288	Seq. ID	OJ000330_26.0419.C31
Gene No.	121812	Strand	+
Start	1120	End	1185
Name	OJ000330_26.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	806	End	1009
GI	none	Score	53
Exons	806..925, 817..894, 823..936, 824..952, 926..1009		

Seq. No.	58288	Seq. ID	OJ000330_26.0419.C31
Gene No.	121812	Strand	+

Start	1120	End	1185
Name	OJ000330_26.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	820	End	1179
GI	none	Score	245
Exons	820..936, 821..973, 821..973, 965..1048, 971..1090, 1006..1077, 1131..1172, 1138..1179, 1139..1174		

Seq. No.	58288	Seq. ID	OJ000330_26.0419.C31
Gene No.	121812	Strand	+
Start	1120	End	1185
Name	OJ000330_26.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	832	End	1174
GI	none	Score	164
Exons	832..933, 833..964, 980..1090, 1142..1174		

Seq. No.	58288	Seq. ID	OJ000330_26.0419.C31
Gene No.	121812	Strand	+
Start	1120	End	1185
Name	OJ000330_26.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	839	End	1042
GI	none	Score	161
Exons	839..964, 847..933, 980..1042, 1009..1041		

Seq. No.	58288	Seq. ID	OJ000330_26.0419.C31
Gene No.	121812	Strand	+
Start	1120	End	1185
Name	OJ000330_26.0419.C31.o1.gp	Method	AAT/GAP
Start	1120	End	1185
GI	uC-osrocyp003b08a1	Score	132
Exons	1120..1185		
GI Descrip.	'5091496/dbj|AB023482.2|AB023482 6.0e-46 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	58289	Seq. ID	OJ000330_26.0419.C32
Gene No.	121813	Strand	-
Start	1	End	764
Name	OJ000330_26.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	764
GI	6523547	Score	352
Exons	1..141, 249..764		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	58289	Seq. ID	OJ000330_26.0419.C32
Gene No.	121813	Strand	-
Start	1	End	764
Name	OJ000330_26.0419.C32.o1.gs	Method	GENSCAN
Start	162	End	745
GI	none	Score	.98
Exons	162..745		

Seq. No.	58290	Seq. ID	OJ000330_26.0419.C35
Gene No.	121814	Strand	-
Start	1145	End	1326
Name	OJ000330_26.0419.C35.o1.gs	Method	GENSCAN
Start	1145	End	1326
GI	none	Score	.83

Exons	1145..1326		
Seq. No.	58291	Seq. ID	OJ000320_27.0419.C2
Gene No.	121815	Strand	-
Start	105	End	447
Name	OJ000320_27.0419.C2.o1.np	Method	AAT/NAP
Start	105	End	447
GI	1076442	Score	86
Exons	105..171, 258..339, 375..447		
GI Descrip.	beta-glucosidase (EC 3.2.1.21) - rape gi|757740|emb|CAA57913.1| (X82577) beta-glucosidase [Brassica napus]		
Seq. No.	58292	Seq. ID	OJ000320_27.0419.C3
Gene No.	121816	Strand	+
Start	689	End	1218
Name	OJ000320_27.0419.C3.o1.gs	Method	GENSCAN
Start	689	End	1218
GI	none	Score	.86
Exons	689..1132, 1189..1218		
Seq. No.	58292	Seq. ID	OJ000320_27.0419.C3
Gene No.	121817	Strand	+
Start	1818	End	3622
Name	OJ000320_27.0419.C3.o1.gp	Method	AAT/GAP
Start	1747	End	3622
GI	4464_1.R1084	Score	1091
Exons	1747..1940, 3050..3088, 3164..3391, 3505..3622		
GI Descrip.	'400989/sp|Q02764|RK24_TOBAC 2.0e-54 50S RIBOSOMAL PROTEIN L24, CHLOROPLAST PRECURSOR (CL24) >gi_322771_pir__A45113 ribosomal protein L24 precursor - common tobacco >gi_170273 (M87838) ribosomal protein L24 [Nicotiana tabacum] >gi_170324 (M87839) ribosomal protein L24 [Nicotiana tabacum]'		
Seq. No.	58292	Seq. ID	OJ000320_27.0419.C3
Gene No.	121817	Strand	+
Start	1818	End	3622
Name	OJ000320_27.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1815	End	3622
GI	none	Score	95
Exons	1815..1895, 1817..1894, 1873..1941, 1874..1942, 3049..3078, 3056..3085, 3134..3394, 3147..3269, 3157..3390, 3503..3622, 3504..3620, 3505..3621		
Seq. No.	58292	Seq. ID	OJ000320_27.0419.C3
Gene No.	121817	Strand	+
Start	1818	End	3622
Name	OJ000320_27.0419.C3.o2.gs	Method	GENSCAN
Start	1818	End	3391
GI	none	Score	.83
Exons	1818..1940, 3050..3088, 3164..3391		
Seq. No.	58292	Seq. ID	OJ000320_27.0419.C3
Gene No.	121817	Strand	+
Start	1818	End	3622
Name	OJ000320_27.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	3150	End	3621
GI	none	Score	86

Exons	3150..3245, 3153..3368, 3161..3370, 3163..3369, 3497..3604, 3502..3621, 3502..3618		
Seq. No.	58292	Seq. ID	OJ000320_27.0419.C3
Gene No.	121817	Strand	+
Start	1818	End	3622
Name	OJ000320_27.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	3151	End	3621
GI	none	Score	144
Exons	3151..3357, 3153..3254, 3157..3369, 3158..3370, 3502..3621, 3502..3615		
Seq. No.	58292	Seq. ID	OJ000320_27.0419.C3
Gene No.	121817	Strand	+
Start	1818	End	3622
Name	OJ000320_27.0419.C3.o1.np	Method	AAT/NAP
Start	3164	End	3622
GI	3914658	Score	414
Exons	3164..3391, 3505..3622		
GI Descrip.	50S RIBOSOMAL PROTEIN L24, CHLOROPLAST PRECURSOR gi|1694974|emb|CAA70851.1| (Y09635) plastid ribosomal protein [Arabidopsis thaliana]		
Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121818	Strand	+
Start	348	End	2298
Name	OJ000320_27.0419.C4.o1.gs	Method	GENSCAN
Start	348	End	2298
GI	none	Score	.68
Exons	348..670, 776..1056, 1179..1405, 1507..1690, 1780..1906, 2127..2298		
Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121818	Strand	+
Start	348	End	2298
Name	OJ000320_27.0419.C4.o1.np	Method	AAT/NAP
Start	643	End	2294
GI	7486807	Score	558
Exons	643..1052, 1184..1405, 1507..1716, 1780..2003, 2139..2294		
GI Descrip.	hypothetical protein M4I22.60 - Arabidopsis thaliana gi|3269286|emb|CAA19719.1| (AL030978) putative protein [Arabidopsis thaliana] gi|7269578|emb|CAB79580.1| (AL161566) putative protein [Arabidopsis thaliana]		
Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121819	Strand	+
Start	6449	End	8514
Name	OJ000320_27.0419.C4.o2.gp	Method	AAT/GAP
Start	6389	End	7622
GI	38125_1.R1084	Score	909
Exons	6389..6610, 7236..7427, 7540..7622		
GI Descrip.	'3402751/emb|CAA20197.1| 8.0e-32 (AL031187) putative protein [Arabidopsis thaliana]'		
Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121819	Strand	+
Start	6449	End	8514

Name	OJ000320_27.0419.C4.o3.gs	Method	GENSCAN
Start	6449	End	8514
GI	none	Score	.69
Exons	6449..6610, 7236..7358, 7540..7750, 7792..7815, 8071..8237, 8395..8514		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121819	Strand	+
Start	6449	End	8514
Name	OJ000320_27.0419.C4.o3.np	Method	AAT/NAP
Start	6479	End	8458
GI	7487784	Score	748
Exons	6479..6582, 7211..7427, 7540..7750, 8014..8258, 8324..8458		
GI Descrip.	hypothetical protein T6K22.50 - Arabidopsis thaliana gi|3402751|emb|CAA20197.1| (AL031187) putative protein [Arabidopsis thaliana] gi|7268928|emb|CAB79131.1| (AL161554) putative protein [Arabidopsis thaliana]		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121820	Strand	+
Start	9559	End	10116
Name	OJ000320_27.0419.C4.o4.gp	Method	AAT/GAP
Start	9559	End	10116
GI	none	Score	1088
Exons	9559..10116		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121821	Strand	+
Start	10475	End	10724
Name	OJ000320_27.0419.C4.o5.gp	Method	AAT/GAP
Start	10475	End	10724
GI	none	Score	473
Exons	10475..10724		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121822	Strand	-
Start	2797	End	5424
Name	OJ000320_27.0419.C4.o2.gs	Method	GENSCAN
Start	2797	End	4177
GI	none	Score	.81
Exons	2797..3443, 3535..4177		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121822	Strand	-
Start	2797	End	5424
Name	OJ000320_27.0419.C4.o2.np	Method	AAT/NAP
Start	2800	End	5424
GI	7486806	Score	921
Exons	2800..3443, 3535..3916, 3959..4216, 5377..5424		
GI Descrip.	hypothetical protein M4I22.50 - Arabidopsis thaliana gi|3269285|emb|CAA19718.1| (AL030978) hypothetical protein [Arabidopsis thaliana] gi|7269577|emb|CAB79579.1| (AL161566) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121822	Strand	-
Start	2797	End	5424

Name	OJ000320_27.0419.C4.o1.gp	Method	AAT/GAP
Start	3293	End	3836
GI	none	Score	719
Exons	3293..3443, 3535..3836		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o4.ts	Method	TBLASTX:Soybean
Start	667	End	1276
GI	none	Score	132
Exons	667..783, 900..1007, 1190..1276		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	670	End	1255
GI	none	Score	125
Exons	670..783, 894..1007, 1190..1255		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	682	End	1043
GI	none	Score	131
Exons	682..771, 891..1043, 911..1015, 930..1025		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	2794	End	2967
GI	none	Score	99
Exons	2794..2967, 2797..2967		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	2803	End	3400
GI	none	Score	134
Exons	2803..2904, 2944..2991, 3109..3174, 3148..3399, 3155..3400		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	3100	End	3423
GI	none	Score	166
Exons	3100..3174, 3148..3423, 3149..3415		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o2.tm	Method	TBLASTX:Maize

Start	3175	End	3415
GI	none	Score	226
Exons	3175..3411, 3179..3415, 3353..3415		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	6404	End	8463
GI	none	Score	172
Exons	6404..6610, 6547..6612, 7230..7433, 7233..7436, 7234..7434, 7235..7441, 7537..7740, 7537..7734, 7539..7745, 8013..8243, 8013..8243, 8014..8250, 8394..8459, 8395..8460, 8395..8463		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	6527	End	8463
GI	none	Score	64
Exons	6527..6574, 7226..7438, 7227..7436, 7262..7438, 7537..7746, 7537..7725, 7539..7736, 8012..8242, 8013..8243, 8047..8250, 8392..8463, 8395..8457		

Seq. No.	58293	Seq. ID	OJ000320_27.0419.C4
Gene No.	121823	Strand	-
Start	8550	End	8709
Name	OJ000320_27.0419.C4.o3.gp	Method	AAT/GAP
Start	8550	End	8709
GI	5005099	Score	289
Exons	8550..8709		

Seq. No.	58294	Seq. ID	OJ000320_27.0419.C6
Gene No.	121824	Strand	-
Start	224	End	1852
Name	OJ000320_27.0419.C6.o1.np	Method	AAT/NAP
Start	215	End	1852
GI	6069646	Score	319
Exons	215..1048, 1828..1852		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	58294	Seq. ID	OJ000320_27.0419.C6
Gene No.	121824	Strand	-
Start	224	End	1852
Name	OJ000320_27.0419.C6.o1.gs	Method	GENSCAN
Start	224	End	1682
GI	none	Score	.74
Exons	224..874, 1354..1448, 1468..1498, 1653..1682		

Seq. No.	58294	Seq. ID	OJ000320_27.0419.C6
Gene No.	121824	Strand	-
Start	224	End	1852
Name	OJ000320_27.0419.C6.o1.tm	Method	TBLASTX:Maize

Start	248	End	1784
GI	none	Score	63
Exons	248..829, 293..451, 519..782, 1249..1563, 1309..1560, 1533..1784, 1534..1752		

Seq. No.	58294	Seq. ID	OJ000320_27.0419.C6
Gene No.	121824	Strand	-
Start	224	End	1852
Name	OJ000320_27.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	503	End	1694
GI	none	Score	52
Exons	503..706, 1333..1365, 1492..1563, 1533..1694, 1561..1680		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121825	Strand	+
Start	671	End	6105
Name	OJ000320_27.0419.C7.o2.np	Method	AAT/NAP
Start	671	End	6105
GI	6069646	Score	506
Exons	671..710, 3650..4425, 5974..6105		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121825	Strand	+
Start	671	End	6105
Name	OJ000320_27.0419.C7.o2.gs	Method	GENSCAN
Start	3733	End	6053
GI	none	Score	.89
Exons	3733..4460, 4486..4582, 5097..5234, 5480..5609, 5920..6053		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121826	Strand	-
Start	1	End	4425
Name	OJ000320_27.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	3971
GI	6069646	Score	579
Exons	1..23, 208..1009, 3912..3971		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121826	Strand	-
Start	1	End	4425
Name	OJ000320_27.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	13	End	4425
GI	none	Score	259
Exons	13..435, 505..918, 3715..4140, 3783..4115, 4141..4425		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121826	Strand	-

Start	1	End	4425
Name	OJ000320_27.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	449	End	4179
GI	none	Score	94
Exons	449..763, 463..768, 3862..4179, 3885..4178		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121826	Strand	-
Start	1	End	4425
Name	OJ000320_27.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	778	End	3855
GI	none	Score	122
Exons	778..984, 973..1113, 3661..3855		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121826	Strand	-
Start	1	End	4425
Name	OJ000320_27.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	919	End	1194
GI	none	Score	116
Exons	919..1194, 920..1168		

Seq. No.	58295	Seq. ID	OJ000320_27.0419.C7
Gene No.	121826	Strand	-
Start	1	End	4425
Name	OJ000320_27.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	1825	End	2104
GI	none	Score	56
Exons	1825..1965, 1850..1912, 1942..2103, 1943..2104		

Seq. No.	58296	Seq. ID	OJ000320_27.0419.C8
Gene No.	121827	Strand	+
Start	319	End	6230
Name	OJ000320_27.0419.C8.o1.gs	Method	GENSCAN
Start	319	End	5987
GI	none	Score	.44
Exons	319..326, 566..707, 1968..2215, 2335..2473, 5623..5740, 5878..5987		

Seq. No.	58296	Seq. ID	OJ000320_27.0419.C8
Gene No.	121827	Strand	+
Start	319	End	6230
Name	OJ000320_27.0419.C8.o1.gp	Method	AAT/GAP
Start	2132	End	5168
GI	24447_1.R1084	Score	1030
Exons	2132..2226, 2335..2473, 3750..3829, 4938..5168		
GI Descrip.	'4835797/gb|AAD30263.1|AC007296_24 5.0e-23 (AC007296) Strong similarity to gb_U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF_00067 Cytochrome P450 family. ESTs gb_Z30775 and gb_Z30776 come from this gene'		

Seq. No.	58296	Seq. ID	OJ000320_27.0419.C8
Gene No.	121827	Strand	+
Start	319	End	6230
Name	OJ000320_27.0419.C8.o2.gp	Method	AAT/GAP
Start	5849	End	6230
GI	3061035	Score	718

Exons	5849..6230		
Seq. No.	58296	Seq. ID	OJ000320_27.0419.C8
Gene No.	121828	Strand	+
Start	6133	End	10028
Name	OJ000320_27.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	2351	End	5046
GI	none	Score	209
Exons	2351..2473, 2398..2472, 3741..3830, 3748..3831, 3749..3829, 4939..5046		
Seq. No.	58296	Seq. ID	OJ000320_27.0419.C8
Gene No.	121828	Strand	+
Start	6133	End	10028
Name	OJ000320_27.0419.C8.o2.gs	Method	GENSCAN
Start	6133	End	10028
GI	none	Score	.89
Exons	6133..6372, 6600..6745, 8196..8562, 9348..10028		
Seq. No.	58296	Seq. ID	OJ000320_27.0419.C8
Gene No.	121828	Strand	+
Start	6133	End	10028
Name	OJ000320_27.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	8193	End	9449
GI	none	Score	94
Exons	8193..8270, 8194..8280, 8364..8447, 8383..8448, 8455..8562, 8493..8555, 9351..9449		
Seq. No.	58296	Seq. ID	OJ000320_27.0419.C8
Gene No.	121828	Strand	+
Start	6133	End	10028
Name	OJ000320_27.0419.C8.o1.np	Method	AAT/NAP
Start	8212	End	10025
GI	6735291	Score	650
Exons	8212..8562, 9348..10025		
GI Descrip.	(AL137079) putative protein [Arabidopsis thaliana]		
Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121829	Strand	+
Start	1	End	2183
Name	OJ000320_27.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1170
GI	5852084	Score	70
Exons	1..28, 1080..1170		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		
Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121829	Strand	+
Start	1	End	2183
Name	OJ000320_27.0419.C9.o1.gs	Method	GENSCAN
Start	948	End	2183
GI	none	Score	.5
Exons	948..986, 2154..2183		
Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217

Name	OJ000320_27.0419.C9.o2.gs	Method	GENSCAN
Start	5062	End	9217
GI	none	Score	.48
Exons	5062..5559, 6850..8136, 8557..8616, 8906..9217		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o2.np	Method	AAT/NAP
Start	5116	End	7956
GI	4835797	Score	1601
Exons	5116..5559, 6850..7125, 7153..7956		
GI Descrip.	(AC007296) Strong similarity to gb|U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF|00067 Cytochrome P450 family. ESTs gb|Z30775 and gb|Z30776 come from this gene		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	5119	End	5565
GI	none	Score	72
Exons	5119..5349, 5222..5350, 5345..5548, 5347..5565		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	5119	End	5380
GI	none	Score	251
Exons	5119..5376, 5144..5380		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	5119	End	7863
GI	none	Score	65
Exons	5119..5355, 5222..5356, 5345..5551, 5347..5568, 6829..6921, 6901..7104, 7459..7836, 7484..7834, 7735..7863		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	5125	End	5487
GI	none	Score	156
Exons	5125..5187, 5150..5476, 5197..5487		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o1.gp	Method	AAT/GAP
Start	5371	End	5850
GI	2800702	Score	857
Exons	5371..5850		
GI Descrip.	4835797/gb|AAD30263.1|AC007296_24 5.0e-23 (AC007296) Strong		

similarity to gb_U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF_00067 Cytochrome P450 family. ESTs gb_Z30775 and gb_Z30776 come from this gene

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o3.tc	Method	TBLASTX:Cress
Start	6838	End	7587
GI	none	Score	96
Exons	6838..7107, 6860..7012, 7465..7587		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o2.gp	Method	AAT/GAP
Start	7105	End	7436
GI	5003550	Score	618
Exons	7105..7436		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o3.gp	Method	AAT/GAP
Start	7534	End	8032
GI	uC-osflm202107f10b1	Score	982
Exons	7534..8032		
GI Descrip.	'4835797/gb|AAD30263.1|AC007296_24 9.0e-38 (AC007296) Strong similarity to gb_U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF_00067 Cytochrome P450 family. ESTs gb_Z30775 and gb_Z30776 come from this gene'		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	7537	End	8146
GI	none	Score	442
Exons	7537..7836, 7538..7837, 7726..7887, 7731..7886, 7879..7977, 7880..7978, 8069..8107, 8108..8146		

Seq. No.	58297	Seq. ID	OJ000320_27.0419.C9
Gene No.	121830	Strand	-
Start	5062	End	9217
Name	OJ000320_27.0419.C9.o2.tc	Method	TBLASTX:Cress
Start	7592	End	7837
GI	none	Score	240
Exons	7592..7837, 7594..7836		

Seq. No.	58298	Seq. ID	OJ000320_27.0419.C10
Gene No.	121831	Strand	-
Start	1851	End	2332
Name	OJ000320_27.0419.C10.o1.gp	Method	AAT/GAP
Start	1851	End	2332
GI	4714750	Score	930
Exons	1851..2332		

Seq. No.	58298	Seq. ID	OJ000320_27.0419.C10
Gene No.	121831	Strand	-
Start	1851	End	2332
Name	OJ000320_27.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	2125	End	2285
GI	none	Score	134
Exons	2125..2271, 2133..2285, 2163..2276		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	2214
GI	3831457	Score	1881
Exons	1..119, 212..243, 514..787, 865..2214		
GI Descrip.	(AC005700) putative ligand-gated ion channel subunit [Arabidopsis thaliana]		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	1	End	2216
GI	none	Score	59
Exons	1..99, 1..126, 2..112, 510..785, 514..789, 866..1012, 867..1010, 884..1024, 1007..1315, 1017..1142, 1037..1282, 1197..1349, 1382..1546, 1434..1565, 1554..1619, 1562..1651, 1655..1852, 1686..1853, 1868..2041, 1873..2025, 1955..2215, 1974..2216, 2013..2216		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	804
GI	none	Score	170
Exons	2..115, 2..115, 194..244, 212..244, 503..733, 510..785, 517..804		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o1.gs	Method	GENSCAN
Start	109	End	2214
GI	none	Score	69
Exons	109..210, 212..243, 514..791, 869..2214		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o3.ts	Method	TBLASTX:Soybean
Start	483	End	804
GI	none	Score	111
Exons	483..683, 508..684, 513..683, 544..684, 651..785, 652..804		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216

Name	OJ000320_27.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	872	End	1243
GI	none	Score	183
Exons	872..1243, 903..1241		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o4.ts	Method	TBLASTX:Soybean
Start	1256	End	1651
GI	none	Score	66
Exons	1256..1315, 1260..1346, 1385..1543, 1544..1651		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	1298	End	1649
GI	none	Score	276
Exons	1298..1636, 1299..1478, 1382..1636, 1527..1649		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1688	End	2212
GI	none	Score	56
Exons	1688..1891, 1718..1819, 1880..2041, 1942..2004, 1944..2159, 1949..2212, 1974..2210		

Seq. No.	58299	Seq. ID	OJ000320_27.0419.C11
Gene No.	121832	Strand	-
Start	1	End	2216
Name	OJ000320_27.0419.C11.o3.tm	Method	TBLASTX:Maize
Start	1722	End	2017
GI	none	Score	210
Exons	1722..1898, 1724..1933, 1724..1891, 1929..2015, 1930..2016, 1949..2017		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121833	Strand	-
Start	493	End	12632
Name	OJ000320_27.0419.C12.o1.gs	Method	GENSCAN
Start	493	End	2526
GI	none	Score	.98
Exons	493..664, 755..862, 952..2526		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121833	Strand	-
Start	493	End	12632
Name	OJ000320_27.0419.C12.o1.np	Method	AAT/NAP
Start	1752	End	7789
GI	7487504	Score	287
Exons	1752..2105, 2265..2363, 5438..5640, 5703..5927, 6037..6159, 7720..7789		
GI Descrip.	hypothetical protein T29A15.10 - Arabidopsis thaliana gi|4469003|emb|CAB38264.1| (AL035602) putative protein		

[Arabidopsis thaliana] gi|7269606|emb|CAB81402.1| (AL161571) putative protein [Arabidopsis thaliana]

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121833	Strand	-
Start	493	End	12632
Name	OJ000320_27.0419.C12.o2.gs	Method	GENSCAN
Start	5270	End	6217
GI	none	Score	.77
Exons	5270..5370, 5438..5565, 5570..5927, 6037..6217		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121833	Strand	-
Start	493	End	12632
Name	OJ000320_27.0419.C12.o1.gp	Method	AAT/GAP
Start	5837	End	6315
GI	LIB3474-008-P1-K1-C12	Score	583
Exons	5837..5927, 6037..6315		
GI Descrip.	'3449320/dbj|AB016879.1|AB016879 5.0e-10 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MRB17, complete sequence'		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121833	Strand	-
Start	493	End	12632
Name	OJ000320_27.0419.C12.o3.gs	Method	GENSCAN
Start	7355	End	12585
GI	none	Score	.77
Exons	7355..7587, 7977..8126, 8694..8737, 8882..8957, 10795..10911, 12189..12232, 12500..12585		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121833	Strand	-
Start	493	End	12632
Name	OJ000320_27.0419.C12.o2.np	Method	AAT/NAP
Start	7364	End	8939
GI	7267249	Score	123
Exons	7364..7566, 8421..8529, 8640..8740, 8882..8939		
GI Descrip.	(AL161502) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121833	Strand	-
Start	493	End	12632
Name	OJ000320_27.0419.C12.o2.gp	Method	AAT/GAP
Start	11168	End	12632
GI	1632667	Score	789
Exons	11168..11529, 12189..12232, 12601..12632		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121834	Strand	-
Start	13887	End	14350
Name	OJ000320_27.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	3243	End	11397
GI	none	Score	78
Exons	3243..3308, 11166..11396, 11173..11397		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121834	Strand	-

Start	13887	End	14350
Name	OJ000320_27.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	5698	End	6127
GI	none	Score	77
Exons	5698..5826, 5699..5809, 5842..5928, 6038..6127		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121834	Strand	-
Start	13887	End	14350
Name	OJ000320_27.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	5857	End	6239
GI	none	Score	128
Exons	5857..5949, 6038..6145, 6048..6239		

Seq. No.	58300	Seq. ID	OJ000320_27.0419.C12
Gene No.	121834	Strand	-
Start	13887	End	14350
Name	OJ000320_27.0419.C12.o4.gs	Method	GENSCAN
Start	13887	End	14350
GI	none	Score	.97
Exons	13887..13956, 14187..14350		

Seq. No.	58301	Seq. ID	OJ000320_27.0419.C13
Gene No.	121835	Strand	+
Start	1219	End	1386
Name	OJ000320_27.0419.C13.o1.gp	Method	AAT/GAP
Start	1219	End	1386
GI	none	Score	63
Exons	1219..1269, 1354..1386		

Seq. No.	58301	Seq. ID	OJ000320_27.0419.C13
Gene No.	121836	Strand	+
Start	1977	End	3374
Name	OJ000320_27.0419.C13.o2.gp	Method	AAT/GAP
Start	1977	End	3374
GI	294_8.R1084	Score	1076
Exons	1977..2023, 2800..3374		
GI Descrip.	'1332579/emb|CAA66667| 3.0e-75 (X98063) polyubiquitin [Pinus sylvestris]'		

Seq. No.	58301	Seq. ID	OJ000320_27.0419.C13
Gene No.	121836	Strand	+
Start	1977	End	3374
Name	OJ000320_27.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	2778	End	3374
GI	none	Score	956
Exons	2778..3320, 2794..3372, 2798..3016, 2799..3374, 2800..3255		

Seq. No.	58301	Seq. ID	OJ000320_27.0419.C13
Gene No.	121836	Strand	+
Start	1977	End	3374
Name	OJ000320_27.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	2788	End	3374
GI	none	Score	953
Exons	2788..2859, 2797..3372, 2799..3374, 2799..3308, 2799..2858, 2800..3312, 2801..3313		

Seq. No.	58301	Seq. ID	OJ000320_27.0419.C13
Gene No.	121836	Strand	+
Start	1977	End	3374
Name	OJ000320_27.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	2788	End	3374
GI	none	Score	953
Exons	2788..2859, 2788..2859, 2792..3028, 2792..2887, 2797..3372, 2797..2859, 2799..3374, 2799..3257, 2800..3258		

Seq. No.	58301	Seq. ID	OJ000320_27.0419.C13
Gene No.	121836	Strand	+
Start	1977	End	3374
Name	OJ000320_27.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	2794	End	3374
GI	none	Score	954
Exons	2794..3372, 2797..2856, 2799..3374, 2799..3371, 2799..3374, 2799..3254, 2800..3372, 2800..3372, 2800..3255		

Seq. No.	58301	Seq. ID	OJ000320_27.0419.C13
Gene No.	121836	Strand	+
Start	1977	End	3374
Name	OJ000320_27.0419.C13.o1.np	Method	AAT/NAP
Start	2800	End	3374
GI	7413601	Score	953
Exons	2800..3374		
GI Descrip.	(AL163002) polyubiquitin (ubq3) [Arabidopsis thaliana]		

Seq. No.	58302	Seq. ID	OJ000320_27.0419.C14
Gene No.	121837	Strand	+
Start	1	End	600
Name	OJ000320_27.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	600
GI	82734	Score	1003
Exons	1..600		
GI Descrip.	ubiquitin precursor - maize (fragment) gi|226763|prf||1604470A poly-ubiquitin [Zea mays]		

Seq. No.	58302	Seq. ID	OJ000320_27.0419.C14
Gene No.	121837	Strand	+
Start	1	End	600
Name	OJ000320_27.0419.C14.o1.gs	Method	GENSCAN
Start	58	End	599
GI	none	Score	.5
Exons	58..599		

Seq. No.	58302	Seq. ID	OJ000320_27.0419.C14
Gene No.	121838	Strand	-
Start	1	End	838
Name	OJ000320_27.0419.C14.o1.gp	Method	AAT/GAP
Start	1	End	838
GI	294_8.R1084	Score	1459
Exons	1..838		
GI Descrip.	'1332579/emb|CAA66667| 3.0e-75 (X98063) polyubiquitin [Pinus sylvestris]'		

Seq. No.	58302	Seq. ID	OJ000320_27.0419.C14
Gene No.	121838	Strand	-

Start	1	End	838
Name	OJ000320_27.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	1	End	627
GI	none	Score	948
Exons	1..567, 1..567, 1..567, 1..567, 1..195, 1..195, 1..195, 1..369, 1..60, 1..186, 3..596, 3..596, 3..596, 3..596, 33..569, 33..569, 33..152, 63..380, 141..596, 142..567, 265..627, 265..627, 268..627, 268..624, 268..606, 273..569, 349..609, 521..577, 521..577, 521..580		

Seq. No.	58302	Seq. ID	OJ000320_27.0419.C14
Gene No.	121838	Strand	-
Start	1	End	838
Name	OJ000320_27.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	627
GI	none	Score	948
Exons	1..567, 1..480, 1..195, 1..198, 1..195, 3..596, 3..482, 51..596, 52..567, 268..627, 268..627, 292..627, 521..580, 521..580, 521..580		

Seq. No.	58302	Seq. ID	OJ000320_27.0419.C14
Gene No.	121838	Strand	-
Start	1	End	838
Name	OJ000320_27.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	1	End	627
GI	none	Score	945
Exons	1..567, 1..567, 1..567, 1..195, 1..147, 1..195, 1..195, 1..369, 3..596, 3..392, 6..596, 6..596, 180..596, 181..567, 268..624, 268..603, 268..618, 268..624, 409..627, 489..569, 521..577, 521..580, 521..580		

Seq. No.	58302	Seq. ID	OJ000320_27.0419.C14
Gene No.	121838	Strand	-
Start	1	End	838
Name	OJ000320_27.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	1	End	627
GI	none	Score	948
Exons	1..567, 1..372, 1..198, 1..198, 1..132, 3..596, 3..371, 141..596, 142..567, 268..627, 370..627, 521..580, 521..574		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o1.gs	Method	GENSCAN
Start	648	End	3002
GI	none	Score	.76
Exons	648..752, 2193..2470, 2476..2549, 2567..2758, 2764..3002		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o1.np	Method	AAT/NAP
Start	1389	End	4561
GI	4204761	Score	444
Exons	1389..1549, 2342..2470, 2567..2758, 2840..3018, 4486..4561		
GI Descrip.	(U51192) peroxidase precursor [Glycine max]		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o1.gp	Method	AAT/GAP
Start	2206	End	2995
GI	20679_1.R1084	Score	1046
Exons	2206..2470, 2567..2758, 2840..2995		
GI Descrip.	'4204761 7.0e-65 (U51192) peroxidase precursor [Glycine max]'		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o2.gp	Method	AAT/GAP
Start	2263	End	3002
GI	20679_1.R1084	Score	971
Exons	2263..2470, 2567..2758, 2840..3002		
GI Descrip.	'4204761 7.0e-65 (U51192) peroxidase precursor [Glycine max]'		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	2332	End	3016
GI	none	Score	188
Exons	2332..2469, 2336..2470, 2566..2757, 2567..2758, 2839..2919, 2840..2920, 2914..3015, 2915..3016		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	2332	End	2749
GI	none	Score	130
Exons	2332..2469, 2336..2470, 2567..2749		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	2342	End	3016
GI	none	Score	153
Exons	2342..2470, 2413..2469, 2566..2583, 2567..2599, 2609..2749, 2647..2712, 2821..3015, 2840..3016		

Seq. No.	58303	Seq. ID	OJ000320_27.0419.C15
Gene No.	121839	Strand	+
Start	648	End	4561
Name	OJ000320_27.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	2345	End	3016
GI	none	Score	149
Exons	2345..2470, 2413..2466, 2585..2749, 2647..2712, 2818..3015, 2840..3016		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121840	Strand	+
Start	132	End	233
Name	OJ000320_27.0419.C16.o1.gs	Method	GENSCAN

Start	132	End	233
GI	none	Score	.87
Exons	132..233		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121841	Strand	+
Start	5842	End	8025
Name	OJ000320_27.0419.C16.o2.np	Method	AAT/NAP
Start	5842	End	7842
GI	678547	Score	414
Exons	5842..5871, 7408..7842		
GI Descrip.	(L13654) peroxidase [Lycopersicon esculentum]		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121841	Strand	+
Start	5842	End	8025
Name	OJ000320_27.0419.C16.o1.gp	Method	AAT/GAP
Start	7418	End	8025
GI	19497_1.R1084	Score	1165
Exons	7418..8025		
GI Descrip.	'678547 2.0e-42 (L13654) peroxidase [Lycopersicon esculentum]'		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121842	Strand	+
Start	9602	End	12579
Name	OJ000320_27.0419.C16.o2.gp	Method	AAT/GAP
Start	9602	End	11141
GI	none	Score	938
Exons	9602..9912, 10943..11141		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121842	Strand	+
Start	9602	End	12579
Name	OJ000320_27.0419.C16.o5.gs	Method	GENSCAN
Start	10948	End	12579
GI	none	Score	.63
Exons	10948..10981, 11168..11520, 11611..11755, 11819..12031, 12221..12579		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121842	Strand	+
Start	9602	End	12579
Name	OJ000320_27.0419.C16.o3.np	Method	AAT/NAP
Start	10999	End	12534
GI	6642657	Score	1134
Exons	10999..11520, 11611..12031, 12221..12534		
GI Descrip.	(AC012395) putative integral membrane protein [Arabidopsis thaliana]		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121843	Strand	+
Start	13852	End	17073
Name	OJ000320_27.0419.C16.o4.np	Method	AAT/NAP
Start	13852	End	17070
GI	7248403	Score	842
Exons	13852..13886, 16472..17070		
GI Descrip.	(AP001389) Similar to Arabidopsis thaliana DNA chromosome 4, BAC		

clone F20D10; hypothetical protein (AL035538) [Oryza sativa]

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121843	Strand	+
Start	13852	End	17073
Name	OJ000320_27.0419.C16.o7.gs	Method	GENSCAN
Start	16534	End	17073
GI	none	Score	.88
Exons	16534..17073		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121844	Strand	-
Start	1336	End	5241
Name	OJ000320_27.0419.C16.o1.np	Method	AAT/NAP
Start	1336	End	5241
GI	6539553	Score	6778
Exons	1336..5241		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121845	Strand	-
Start	8511	End	9888
Name	OJ000320_27.0419.C16.o4.gs	Method	GENSCAN
Start	8511	End	9888
GI	none	Score	.65
Exons	8511..8533, 9631..9810, 9822..9888		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121846	Strand	-
Start	13406	End	15840
Name	OJ000320_27.0419.C16.o6.gs	Method	GENSCAN
Start	13406	End	15840
GI	none	Score	.61
Exons	13406..14059, 15724..15840		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	1472	End	1948
GI	none	Score	376
Exons	1472..1858, 1510..1857, 1873..1947, 1875..1946, 1877..1948		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o7.ts	Method	TBLASTX:Soybean
Start	1600	End	1941
GI	none	Score	79
Exons	1600..1809, 1679..1804, 1828..1941, 1835..1915		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720

Name	OJ000320_27.0419.C16.o6.tm	Method	TBLASTX:Maize
Start	1804	End	2143
GI	none	Score	190
Exons	1804..2142, 1805..2143		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	1954	End	2299
GI	none	Score	129
Exons	1954..2298, 2099..2299		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o3.tw	Method	TBLASTX:Wheat
Start	2152	End	2697
GI	none	Score	48
Exons	2152..2358, 2162..2284, 2353..2697, 2377..2550		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o5.tm	Method	TBLASTX:Maize
Start	2233	End	2698
GI	none	Score	55
Exons	2233..2697, 2336..2446, 2380..2562, 2516..2698		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	2368	End	2832
GI	5509260	Score	58
Exons	2368..2832, 2387..2446, 2519..2614, 2663..2731		
GI Descrip.	-		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o3.tc	Method	TBLASTX:Cress
Start	2479	End	2739
GI	none	Score	62
Exons	2479..2739, 2660..2737		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	2752	End	3507
GI	none	Score	200
Exons	2752..2991, 2753..2911, 2769..2999, 2772..2969, 3020..3499, 3043..3507		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-

Start	17255	End	17720
Name	OJ000320_27.0419.C16.o5.tc	Method	TBLASTX:Cress
Start	3133	End	3522
GI	none	Score	112
Exons	3133..3327, 3340..3522		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o4.ts	Method	TBLASTX:Soybean
Start	3157	End	3555
GI	none	Score	38
Exons	3157..3330, 3284..3322, 3331..3555, 3377..3547		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o7.tm	Method	TBLASTX:Maize
Start	3343	End	3777
GI	none	Score	84
Exons	3343..3777, 3368..3568		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o5.tw	Method	TBLASTX:Wheat
Start	3508	End	3700
GI	none	Score	186
Exons	3508..3699, 3508..3699, 3509..3700		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o8.ts	Method	TBLASTX:Soybean
Start	3565	End	3951
GI	none	Score	88
Exons	3565..3813, 3796..3951		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	3978	End	4300
GI	none	Score	395
Exons	3978..4145, 3979..4293, 3980..4273, 4046..4300		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o4.tm	Method	TBLASTX:Maize
Start	4799	End	5112
GI	none	Score	297
Exons	4799..5104, 4801..5112		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720

Name	OJ000320_27.0419.C16.o4.tw	Method	TBLASTX:Wheat
Start	4861	End	5247
GI	none	Score	258
Exons	4861..5247, 4862..5236		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	7417	End	7839
GI	none	Score	121
Exons	7417..7506, 7492..7839, 7539..7619, 7743..7823		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o3.ts	Method	TBLASTX:Soybean
Start	7417	End	7839
GI	none	Score	114
Exons	7417..7491, 7419..7481, 7492..7557, 7569..7619, 7573..7839, 7734..7829		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	7417	End	7839
GI	none	Score	185
Exons	7417..7545, 7419..7481, 7545..7592, 7545..7619, 7546..7839, 7662..7838		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	10942	End	11712
GI	none	Score	304
Exons	10942..11310, 10959..11279, 10960..11313, 11088..11312, 11307..11525, 11312..11374, 11316..11501, 11414..11524, 11547..11711, 11610..11708, 11611..11712		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o9.ts	Method	TBLASTX:Soybean
Start	10956	End	11211
GI	none	Score	190
Exons	10956..11207, 10990..11211		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	11283	End	11820
GI	none	Score	199
Exons	11283..11501, 11392..11520, 11550..11819, 11610..11738, 11611..11820		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o10.ts	Method	TBLASTX:Soybean
Start	11391	End	11523
GI	none	Score	183
Exons	11391..11498, 11392..11523		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o6.ts	Method	TBLASTX:Soybean
Start	11616	End	11886
GI	none	Score	113
Exons	11616..11816, 11616..11819, 11617..11820, 11824..11886		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o8.tm	Method	TBLASTX:Maize
Start	11791	End	12048
GI	none	Score	176
Exons	11791..11904, 11791..12048, 11795..12040, 11796..12047, 11974..12048		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o4.tc	Method	TBLASTX:Cress
Start	16504	End	16839
GI	none	Score	142
Exons	16504..16662, 16509..16646, 16687..16839		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o5.ts	Method	TBLASTX:Soybean
Start	16543	End	16827
GI	none	Score	126
Exons	16543..16683, 16690..16827		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o9.tm	Method	TBLASTX:Maize
Start	16690	End	17049
GI	none	Score	276
Exons	16690..17049, 16699..16845, 16914..17021		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o8.gs	Method	GENSCAN
Start	17255	End	17627
GI	none	Score	.94
Exons	17255..17429, 17449..17627		

Seq. No.	58304	Seq. ID	OJ000320_27.0419.C16
Gene No.	121847	Strand	-
Start	17255	End	17720
Name	OJ000320_27.0419.C16.o5.np	Method	AAT/NAP
Start	17258	End	17720
GI	7248404	Score	414
Exons	17258..17720		
GI Descrip.	(AP001389) ESTs AU082409(E30736),C74252(E30736) correspond to a region of the predicted gene.~hypothetical protein [Oryza sativa]		

Seq. No.	58305	Seq. ID	OJ000320_27.0419.C17
Gene No.	121848	Strand	+
Start	622	End	2397
Name	OJ000320_27.0419.C17.o1.gs	Method	GENSCAN
Start	622	End	2397
GI	none	Score	.59
Exons	622..696, 1047..1217, 1842..1920, 2369..2397		

Seq. No.	58305	Seq. ID	OJ000320_27.0419.C17
Gene No.	121848	Strand	+
Start	622	End	2397
Name	OJ000320_27.0419.C17.o1.np	Method	AAT/NAP
Start	1047	End	1100
GI	5042454	Score	69
Exons	1047..1100		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58305	Seq. ID	OJ000320_27.0419.C17
Gene No.	121849	Strand	+
Start	3316	End	3654
Name	OJ000320_27.0419.C17.o2.gs	Method	GENSCAN
Start	3316	End	3654
GI	none	Score	.89
Exons	3316..3654		

Seq. No.	58305	Seq. ID	OJ000320_27.0419.C17
Gene No.	121850	Strand	+
Start	4292	End	4551
Name	OJ000320_27.0419.C17.o3.gs	Method	GENSCAN
Start	4292	End	4551
GI	none	Score	.82
Exons	4292..4395, 4401..4551		

Seq. No.	58305	Seq. ID	OJ000320_27.0419.C17
Gene No.	121851	Strand	-
Start	4114	End	4731
Name	OJ000320_27.0419.C17.o1.gp	Method	AAT/GAP
Start	4114	End	4731
GI	55573_1.R1084	Score	1151
Exons	4114..4731		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	58306	Seq. ID	OJ000320_27.0419.C19
Gene No.	121852	Strand	+

Start	716	End	987
Name	OJ000320_27.0419.C19.o1.gs	Method	GENSCAN
Start	716	End	987
GI	none	Score	.8
Exons	716..772, 899..987		

Seq. No.	58306	Seq. ID	OJ000320_27.0419.C19
Gene No.	121853	Strand	-
Start	1289	End	2125
Name	OJ000320_27.0419.C19.o2.gs	Method	GENSCAN
Start	1289	End	2125
GI	none	Score	.73
Exons	1289..1531, 2048..2125		

Seq. No.	58307	Seq. ID	OJ000320_27.0419.C20
Gene No.	121854	Strand	+
Start	143	End	322
Name	OJ000320_27.0419.C20.o1.gs	Method	GENSCAN
Start	143	End	322
GI	none	Score	.77
Exons	143..322		

Seq. No.	58307	Seq. ID	OJ000320_27.0419.C20
Gene No.	121855	Strand	-
Start	872	End	2054
Name	OJ000320_27.0419.C20.o2.gs	Method	GENSCAN
Start	872	End	2054
GI	none	Score	.59
Exons	872..930, 1982..2054		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121856	Strand	+
Start	975	End	1394
Name	OJ000320_27.0419.C21.o1.gp	Method	AAT/GAP
Start	975	End	1394
GI	LIB3474-007-P1-K1-G11	Score	840
Exons	975..1394		
GI Descrip.	'3789942 8.0e-27 (AF093505) polyubiquitin [Saccharum hybrid cultivar H32-8560]'		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121857	Strand	+
Start	1812	End	2066
Name	OJ000320_27.0419.C21.o2.gp	Method	AAT/GAP
Start	1812	End	2066
GI	2311684	Score	478
Exons	1812..2066		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121858	Strand	+
Start	6247	End	6414
Name	OJ000320_27.0419.C21.o3.gp	Method	AAT/GAP
Start	6247	End	6414
GI	3769020	Score	299
Exons	6247..6414		
GI Descrip.	3789942 8.0e-27 (AF093505) polyubiquitin [Saccharum hybrid cultivar H32-8560]		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121859	Strand	-
Start	5948	End	10804
Name	OJ000320_27.0419.C21.o2.gs	Method	GENSCAN
Start	5948	End	10724
GI	none	Score	.45
Exons	5948..6026, 7737..8463, 9096..9301, 10093..10724		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121859	Strand	-
Start	5948	End	10804
Name	OJ000320_27.0419.C21.o1.np	Method	AAT/NAP
Start	7739	End	10804
GI	7486660	Score	1489
Exons	7739..8449, 9091..9301, 10093..10804		
GI Descrip.	hypothetical protein F8F16.10 - Arabidopsis thaliana gi|2827514|emb|CAA16523.1| (AL021633) predicted protein [Arabidopsis thaliana] gi|7270022|emb|CAB79838.1| (AL161578) predicted protein [Arabidopsis thaliana]		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121859	Strand	-
Start	5948	End	10804
Name	OJ000320_27.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	7826	End	8156
GI	none	Score	406
Exons	7826..8077, 7830..8156, 7833..8153		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121859	Strand	-
Start	5948	End	10804
Name	OJ000320_27.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	9136	End	10283
GI	none	Score	95
Exons	9136..9303, 9139..9276, 9233..9310, 10084..10266, 10086..10283		

Seq. No.	58308	Seq. ID	OJ000320_27.0419.C21
Gene No.	121859	Strand	-
Start	5948	End	10804
Name	OJ000320_27.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	9225	End	10289
GI	none	Score	79
Exons	9225..9302, 9226..9303, 9226..9303, 9236..9310, 10090..10266, 10093..10266, 10095..10289		

Seq. No.	58309	Seq. ID	OJ000320_27.0419.C22
Gene No.	121860	Strand	+
Start	1468	End	1927
Name	OJ000320_27.0419.C22.o1.gp	Method	AAT/GAP
Start	1468	End	1927
GI	uC-osroM202001b09a1	Score	885
Exons	1468..1927		
GI Descrip.	'3789942 8.0e-27 (AF093505) polyubiquitin [Saccharum hybrid cultivar H32-8560]'		

Seq. No.	58310	Seq. ID	OJ000320_27.0419.C23

Gene No.	121861	Strand	+
Start	1	End	1860
Name	OJ000320_27.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1860
GI	3820531	Score	549
Exons	1..45, 429..504, 586..657, 761..848, 968..1223, 1321..1436, 1529..1756, 1838..1860		
GI Descrip.	(AF072736) beta-glucosidase [Pinus contorta]		

Seq. No.	58310	Seq. ID	OJ000320_27.0419.C23
Gene No.	121861	Strand	+
Start	1	End	1860
Name	OJ000320_27.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	402	End	1691
GI	none	Score	86
Exons	402..503, 603..662, 748..849, 768..836, 968..1177, 969..1223, 1318..1437, 1530..1691		

Seq. No.	58310	Seq. ID	OJ000320_27.0419.C23
Gene No.	121861	Strand	+
Start	1	End	1860
Name	OJ000320_27.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	402	End	1756
GI	none	Score	112
Exons	402..503, 428..502, 516..662, 576..641, 745..849, 759..833, 969..1106, 969..1103, 986..1105, 1133..1165, 1134..1226, 1318..1437, 1339..1437, 1529..1666, 1530..1685, 1733..1756		

Seq. No.	58310	Seq. ID	OJ000320_27.0419.C23
Gene No.	121861	Strand	+
Start	1	End	1860
Name	OJ000320_27.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	420	End	1747
GI	none	Score	102
Exons	420..503, 591..662, 748..849, 759..830, 969..1223, 986..1153, 1318..1437, 1530..1679, 1727..1747		

Seq. No.	58310	Seq. ID	OJ000320_27.0419.C23
Gene No.	121861	Strand	+
Start	1	End	1860
Name	OJ000320_27.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	423	End	1685
GI	none	Score	88
Exons	423..503, 428..502, 576..650, 748..849, 753..845, 763..852, 969..1211, 986..1105, 1146..1211, 1339..1437, 1530..1685		

Seq. No.	58310	Seq. ID	OJ000320_27.0419.C23
Gene No.	121861	Strand	+
Start	1	End	1860
Name	OJ000320_27.0419.C23.o1.gs	Method	GENSCAN
Start	572	End	1752
GI	none	Score	.7
Exons	572..594, 968..1223, 1321..1436, 1529..1752		

Seq. No.	58310	Seq. ID	OJ000320_27.0419.C23
Gene No.	121861	Strand	+
Start	1	End	1860

Name	OJ000320_27.0419.C23.o1.gp	Method	AAT/GAP
Start	897	End	1343
GI	1036934	Score	536
Exons	897..1223, 1321..1343		
GI Descrip.	3449320/dbj|AB016879.1|AB016879 5.0e-10 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MRB17, complete sequence		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	3364
GI	2088656	Score	1744
Exons	1..25, 84..244, 333..488, 1315..3042, 3131..3364		
GI Descrip.	(AF002109) putative DNA-directed RNA polymerase II subunit [Arabidopsis thaliana]		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o1.gs	Method	GENSCAN
Start	86	End	16259
GI	none	Score	.79
Exons	86..244, 333..488, 1315..3042, 3217..3305, 3691..3838, 5035..5162, 5816..5979, 6720..6994, 7527..7700, 7780..7920, 8095..9761, 9940..10021, 10164..10534, 10796..10889, 10919..10987, 12037..12420, 12540..12638, 13114..13235, 13658..13735, 13780..13903, 14572..14643, 14763..14891, 16116..16259		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	2151	End	2711
GI	none	Score	509
Exons	2151..2642, 2152..2643, 2670..2711		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	3134	End	5982
GI	none	Score	106
Exons	3134..3244, 3137..3235, 3201..3311, 3202..3324, 3203..3304, 3204..3305, 4863..4943, 4869..4940, 4877..4945, 4877..4942, 5015..5161, 5032..5160, 5037..5162, 5816..5980, 5817..5981, 5818..5982		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	7882	End	8778
GI	none	Score	62
Exons	7882..7923, 8091..8222, 8092..8223, 8092..8223, 8093..8224, 8221..8376, 8226..8399, 8226..8393, 8228..8416, 8410..8451,		

8430..8507, 8431..8508, 8449..8508, 8540..8602, 8543..8635, 8647..8778

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o1.gp	Method	AAT/GAP
Start	8322	End	8656
GI	none	Score	491
Exons	8322..8656		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o2.gp	Method	AAT/GAP
Start	9043	End	9404
GI	none	Score	667
Exons	9043..9404		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o4.np	Method	AAT/NAP
Start	9697	End	10331
GI	6523066	Score	151
Exons	9697..9764, 9937..10048, 10164..10331		
GI Descrip.	(AL133314) putative protein [Arabidopsis thaliana]		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o4.tm	Method	TBLASTX:Maize
Start	9941	End	10306
GI	none	Score	125
Exons	9941..10027, 9952..10026, 10163..10306, 10164..10304		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o3.gp	Method	AAT/GAP
Start	12175	End	13737
GI	LIB3434-038-P1-K1-C10	Score	461
Exons	12175..12249, 12356..12420, 12540..12638, 13688..13737		
GI Descrip.	'5730130/emb|CAB52464.1| 5.0e-14 (AL109796) putative protein [Arabidopsis thaliana]'		

Seq. No.	58311	Seq. ID	OJ000310_27.0419.C1
Gene No.	121862	Strand	+
Start	1	End	16300
Name	OJ000310_27.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	16136	End	16300
GI	none	Score	185
Exons	16136..16300, 16137..16274, 16144..16290		

Seq. No.	58312	Seq. ID	OJ000310_27.0419.C2
Gene No.	121863	Strand	+
Start	2306	End	4040

Name	OJ000310_27.0419.C2.o1.np	Method	AAT/NAP
Start	2306	End	4040
GI	6907089	Score	2220
Exons	2306..3567, 3671..4040		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58313	Seq. ID	OJ000310_27.0419.C3
Gene No.	121864	Strand	+
Start	1	End	1039
Name	OJ000310_27.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1039
GI	6907089	Score	889
Exons	1..1039		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58313	Seq. ID	OJ000310_27.0419.C3
Gene No.	121864	Strand	+
Start	1	End	1039
Name	OJ000310_27.0419.C3.o1.gs	Method	GENSCAN
Start	46	End	748
GI	none	Score	.62
Exons	46..748		

Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121865	Strand	+
Start	25	End	10814
Name	OJ000310_27.0419.C4.o1.gs	Method	GENSCAN
Start	25	End	4494
GI	none	Score	.58
Exons	25..75, 1484..1621, 3269..3384, 3687..3961, 4274..4494		

Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121865	Strand	+
Start	25	End	10814
Name	OJ000310_27.0419.C4.o1.np	Method	AAT/NAP
Start	1877	End	10814
GI	6523547	Score	152
Exons	1877..2133, 6096..6178, 10363..10600, 10722..10814		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121866	Strand	+
Start	10726	End	13891
Name	OJ000310_27.0419.C4.o3.gs	Method	GENSCAN
Start	10726	End	13673
GI	none	Score	.91
Exons	10726..10814, 10940..11088, 11113..11267, 11499..11582, 11691..11807, 11899..12090, 12176..12379, 12467..12954, 13574..13673		

Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121866	Strand	+
Start	10726	End	13891
Name	OJ000310_27.0419.C4.o2.np	Method	AAT/NAP
Start	11757	End	13891
GI	7025856	Score	487

Exons	11757..11807, 11899..12062, 12181..12382, 12551..12954, 13574..13673, 13830..13891		
GI Descrip.	(AC024128) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121867	Strand	-
Start	1537	End	1659
Name	OJ000310_27.0419.C4.o1.gp	Method	AAT/GAP
Start	1537	End	1659
GI	24179_2.R1084	Score	134
Exons	1537..1659		
GI Descrip.	'4680189/gb|AF111710.1|AF111710 1.0e-23 Oryza sativa subsp. indica putative dnaJ-like protein, putative myb-related protein, putative farnesyl pyrophosphate synthase, and hypothetical protein genes, complete cds'		
Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121868	Strand	-
Start	5981	End	8160
Name	OJ000310_27.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	501	End	820
GI	none	Score	62
Exons	501..527, 537..593, 585..647, 660..707, 661..801, 661..708,	588..638, 595..642, 595..663, 690..761, 696..812, 725..820	
Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121868	Strand	-
Start	5981	End	8160
Name	OJ000310_27.0419.C4.o2.gs	Method	GENSCAN
Start	5981	End	7882
GI	none	Score	.86
Exons	5981..6204, 6424..6511, 7443..7540, 7795..7882		
Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121868	Strand	-
Start	5981	End	8160
Name	OJ000310_27.0419.C4.o2.gp	Method	AAT/GAP
Start	6410	End	8160
GI	none	Score	810
Exons	6410..6511, 7443..7540, 7795..7984, 8082..8160		
Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121869	Strand	
Start	11520	End	12256
Name	OJ000310_27.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	11520	End	12256
GI	none	Score	67
Exons	11520..11588, 11538..11579, 11564..11626, 11688..11855, 11689..11808, 11724..11813, 11894..12058, 11896..12081, 11896..12057, 11898..12083, 12060..12089, 12158..12208, 12175..12207, 12208..12231, 12209..12256		
Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121869	Strand	
Start	11520	End	12256
Name	OJ000310_27.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	11939	End	12212

GI	none	Score	144
Exons	11939..12040, 11950..12054, 11953..12057, 11954..12058, 12028..12090, 12045..12089, 12057..12092, 12161..12211, 12174..12212, 12175..12210		
Seq. No.	58314	Seq. ID	OJ000310_27.0419.C4
Gene No.	121870	Strand	
Start	12568	End	13889
Name	OJ000310_27.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	12568	End	13889
GI	none	Score	408
Exons	12568..12942, 12569..12958, 12572..12958, 12573..13010, 12846..12959, 13569..13673, 13571..13672, 13575..13673, 13576..13674, 13576..13674, 13830..13889, 13835..13888		
Seq. No.	58315	Seq. ID	OJ000310_27.0419.C5
Gene No.	121871	Strand	+
Start	1	End	388
Name	OJ000310_27.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	361
GI	7025856	Score	268
Exons	1..361		
GI Descrip.	(AC024128) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58315	Seq. ID	OJ000310_27.0419.C5
Gene No.	121871	Strand	+
Start	1	End	388
Name	OJ000310_27.0419.C5.o1.gs	Method	GENSCAN
Start	44	End	388
GI	none	Score	.91
Exons	44..388		
Seq. No.	58315	Seq. ID	OJ000310_27.0419.C5
Gene No.	121872	Strand	-
Start	1507	End	1787
Name	OJ000310_27.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	42	End	375
GI	none	Score	124
Exons	42..227, 43..246, 44..277, 44..259, 254..361, 270..362, 271..375, 283..363		
Seq. No.	58315	Seq. ID	OJ000310_27.0419.C5
Gene No.	121872	Strand	-
Start	1507	End	1787
Name	OJ000310_27.0419.C5.o2.gs	Method	GENSCAN
Start	1507	End	1787
GI	none	Score	.74
Exons	1507..1787		
Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	2	End	4336
GI	none	Score	197
Exons	2..253, 3..254, 527..658, 551..700, 4142..4336, 4168..4335		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o1.gs	Method	GENSCAN
Start	25	End	5941
GI	none	Score	.6
Exons	25..1988, 3216..3368, 3437..4793, 4883..5941		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	131	End	5642
GI	none	Score	61
Exons	131..226, 173..379, 173..433, 176..436, 176..433, 179..433, 179..454, 239..433, 449..745, 504..710, 509..778, 509..763, 512..778, 536..748, 629..736, 770..841, 926..1063, 1076..1267, 1076..1255, 1082..1282, 1082..1282, 1212..1271, 1289..1492, 1289..1468, 1289..1468, 1290..1448, 1359..1454, 1652..1834, 4292..4390, 4294..4413, 4339..4596, 4342..4596, 4342..4461, 4342..4500, 4342..4581, 4361..4597, 4402..4596, 4752..4913, 4791..4898, 4938..5003, 5238..5429, 5238..5417, 5238..5426, 5244..5444, 5310..5435, 5373..5630, 5418..5630, 5451..5642, 5451..5630, 5451..5630, 5451..5630		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	131	End	5604
GI	none	Score	53
Exons	131..334, 158..316, 173..334, 176..316, 189..275, 260..418, 497..691, 839..1009, 1064..1435, 1064..1441, 4339..4494, 4420..4581, 4761..4853, 5088..5207, 5226..5603, 5226..5603, 5257..5604		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	173	End	5642
GI	none	Score	65
Exons	173..433, 179..304, 231..350, 251..334, 524..757, 554..601, 578..775, 869..1054, 896..1048, 1109..1282, 1289..1480, 3382..3681, 3383..3676, 3559..3678, 3712..3981, 3733..3906, 4339..4503, 4366..4602, 5028..5216, 5028..5210, 5427..5630, 5451..5642		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	254	End	5813
GI	none	Score	226
Exons	254..424, 272..439, 872..1246, 876..1163, 889..1227, 1319..1552, 1499..1627, 4336..4503, 4363..4503, 4417..4587, 4435..4602, 4752..4910, 5046..5408, 5050..5325, 5055..5408, 5253..5429,		

5481..5714, 5661..5813

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o3.tw	Method	TBLASTX:Wheat
Start	692	End	5088
GI	none	Score	103
Exons	692..835, 692..832, 693..836, 4854..5081, 4854..5087, 4855..5088		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o1.np	Method	AAT/NAP
Start	3149	End	6089
GI	6598459	Score	1705
Exons	3149..5737, 5822..6089		
GI Descrip.	(AC005312) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	3152	End	3991
GI	none	Score	153
Exons	3152..3280, 3382..3681, 3383..3667, 3676..3987, 3776..3991		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	3179	End	3991
GI	none	Score	111
Exons	3179..3334, 3382..3681, 3397..3708, 3709..3981, 3749..3991		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	3298	End	3732
GI	none	Score	69
Exons	3298..3387, 3303..3383, 3369..3728, 3378..3641, 3382..3732, 3383..3688, 3693..3728		

Seq. No.	58316	Seq. ID	OJ000310_27.0419.C6
Gene No.	121873	Strand	-
Start	25	End	6089
Name	OJ000310_27.0419.C6.o1.gp	Method	AAT/GAP
Start	3523	End	4009
GI	uC-osflcyp121f01b1	Score	905
Exons	3523..4009		
GI Descrip.	'3894157 7.0e-52 (AC005312) putative protein kinase, 3'' partial [Arabidopsis thaliana]'		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121874	Strand	+

Start	86	End	801
Name	OJ000310_27.0419.C8.o1.gs	Method	GENSCAN
Start	86	End	801
GI	none	Score	.43
Exons	86..258, 687..801		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121875	Strand	+
Start	6067	End	6646
Name	OJ000310_27.0419.C8.o2.np	Method	AAT/NAP
Start	6067	End	6646
GI	6069646	Score	794
Exons	6067..6646		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o2.gs	Method	GENSCAN
Start	1092	End	8099
GI	none	Score	.52
Exons	1092..1648, 1855..2337, 2531..4155, 6459..6511, 6999..7311, 7666..7696, 7991..8099		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1128	End	8285
GI	none	Score	63
Exons	1128..1316, 1341..1643, 1429..1518, 1500..1643, 1691..1984, 1731..1985, 7932..8120, 8145..8285		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o1.np	Method	AAT/NAP
Start	1131	End	4427
GI	6598459	Score	1845
Exons	1131..3690, 3766..4162, 4349..4427		
GI Descrip.	(AC005312) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	1131	End	8285
GI	none	Score	86
Exons	1131..1316, 1317..1643, 1318..1476, 1673..1987, 2402..2497, 2718..2936, 3828..3878, 3999..4070, 7929..8120, 8121..8285		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8

Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	1279	End	8285
GI	none	Score	352
Exons	1279..1614, 1281..1643, 1292..1633, 1591..1650, 1637..1714, 8082..8285, 8083..8247, 8109..8285		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1344	End	8267
GI	none	Score	64
Exons	1344..1463, 1345..1404, 1470..1643, 1477..1596, 1685..1990, 1737..1988, 1860..1991, 7935..8039, 8148..8267, 8149..8208		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o4.tw	Method	TBLASTX:Wheat
Start	1724	End	1990
GI	none	Score	175
Exons	1724..1990		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	2111	End	3416
GI	none	Score	296
Exons	2111..2440, 2124..2474, 2381..2485, 2514..2576, 2521..2574, 2685..2819, 3060..3194, 3303..3416		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	2195	End	3794
GI	none	Score	48
Exons	2195..2401, 2231..2395, 2327..2401, 2511..2579, 2514..2579, 2514..2579, 2514..2579, 3021..3200, 3027..3203, 3027..3137, 3030..3080, 3030..3197, 3057..3194, 3090..3197, 3258..3434, 3261..3437, 3264..3437, 3264..3446, 3264..3428, 3264..3425, 3279..3428, 3303..3437, 3306..3443, 3357..3443, 3444..3620, 3444..3620, 3444..3620, 3444..3572, 3456..3620, 3456..3620, 3456..3620, 3456..3617, 3456..3620, 3462..3620, 3516..3620, 3525..3584, 3666..3722, 3693..3794, 3747..3791		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	2258	End	3620
GI	none	Score	54
Exons	2258..2464, 2330..2491, 2406..2486, 2682..2852, 3027..3152, 3036..3197, 3225..3437, 3248..3436, 3261..3443, 3271..3444,		

3309..3443, 3309..3437, 3439..3528, 3450..3608, 3452..3586, 3462..3620

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	2321	End	3725
GI	none	Score	61
Exons	2321..2488, 2397..2483, 2532..2627, 2685..2915, 2688..2846, 3258..3437, 3264..3365, 3516..3623, 3669..3725		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	6066	End	6613
GI	none	Score	73
Exons	6066..6161, 6159..6404, 6196..6393, 6431..6613		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o3.tw	Method	TBLASTX:Wheat
Start	6192	End	6520
GI	none	Score	76
Exons	6192..6362, 6195..6359, 6199..6363, 6485..6520		

Seq. No.	58317	Seq. ID	OJ000310_27.0419.C8
Gene No.	121876	Strand	-
Start	1092	End	8286
Name	OJ000310_27.0419.C8.o3.np	Method	AAT/NAP
Start	7920	End	8286
GI	5042449	Score	231
Exons	7920..8286		
GI Descrip.	(AC007789) putative protein kinase [Oryza sativa]		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121877	Strand	+
Start	5831	End	6342
Name	OJ000310_27.0419.C9.o2.gs	Method	GENSCAN
Start	5831	End	6342
GI	none	Score	.91
Exons	5831..5977, 6013..6145, 6332..6342		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121878	Strand	+
Start	10399	End	10621
Name	OJ000310_27.0419.C9.o4.gs	Method	GENSCAN
Start	10399	End	10621
GI	none	Score	.46
Exons	10399..10507, 10563..10621		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121879	Strand	+
Start	13020	End	13446
Name	OJ000310_27.0419.C9.o1.gp	Method	AAT/GAP

Start	13020	End	13446
GI	none	Score	834
Exons	13020..13446		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121880	Strand	-
Start	293	End	4134
Name	OJ000310_27.0419.C9.o1.gs	Method	GENSCAN
Start	293	End	3451
GI	none	Score	.66
Exons	293..3451		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121880	Strand	-
Start	293	End	4134
Name	OJ000310_27.0419.C9.o1.np	Method	AAT/NAP
Start	326	End	4134
GI	6598459	Score	1885
Exons	326..2905, 2992..3360, 4062..4134		
GI Descrip.	(AC005312) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	332	End	14143
GI	none	Score	183
Exons	332..478, 507..857, 536..859, 878..1195, 948..1127, 6828..7001, 7006..7353, 7017..7355, 7374..7676, 7444..7686, 13295..13441, 13484..13822, 13503..13595, 13653..13814, 13841..14143, 13889..14122		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	473	End	13873
GI	none	Score	433
Exons	473..910, 474..866, 6969..7406, 6970..7212, 6996..7361, 7264..7407, 13436..13873, 13437..13601, 13438..13860		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	512	End	15616
GI	none	Score	81
Exons	512..859, 513..671, 869..1183, 930..1169, 1985..2119, 2603..2842, 6822..7007, 7008..7355, 7009..7167, 7386..7685, 8094..8246, 8787..8906, 8883..9152, 13277..13474, 13475..13822, 13586..13801, 13832..14146, 13923..14144, 14561..14731, 14876..15001, 15383..15616		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178

Name	OJ000310_27.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	537	End	14150
GI	none	Score	54
Exons	537..596, 539..658, 665..859, 675..854, 881..1033, 909..1163, 1055..1186, 6822..6926, 7035..7154, 7161..7355, 7188..7355, 7380..7679, 7399..7677, 13502..13621, 13628..13822, 13844..14149, 13899..14147, 14019..14150		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	920	End	14158
GI	none	Score	72
Exons	920..1186, 7422..7679, 7441..7674, 13883..14158, 13890..14147		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	1307	End	14486
GI	none	Score	213
Exons	1307..1570, 1308..1589, 7789..8019, 7798..8010, 7802..8011, 7869..8018, 9333..9419, 14269..14475, 14271..14486, 14339..14485		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	1433	End	15805
GI	none	Score	156
Exons	1433..1774, 1515..1769, 1883..2092, 1910..2101, 1911..1997, 1919..2071, 2288..2518, 2288..2398, 2429..2629, 2429..2464, 7932..8273, 7972..8175, 8271..8318, 8406..8597, 8421..8570, 8484..8621, 8772..8906, 8928..9050, 8991..9281, 8994..9134, 9135..9335, 9135..9299, 9518..9697, 14402..14743, 14424..14654, 14501..14635, 14702..14752, 14840..14983, 14855..15028, 14873..15064, 14874..15035, 14882..15034, 14945..15127, 15242..15295, 15401..15580, 15401..15565, 15464..15592, 15683..15805		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	1472	End	15767
GI	none	Score	68
Exons	1472..1675, 1499..1663, 1901..2047, 1913..2119, 2285..2413, 2417..2635, 2418..2630, 2429..2581, 2636..2836, 2648..2800, 2655..2801, 8019..8102, 8022..8228, 8094..8273, 8094..8246, 8097..8273, 8379..8543, 8389..8538, 8724..8912, 8778..8897, 8916..9107, 8916..9134, 8917..9126, 9130..9195, 9138..9287, 9141..9299, 9147..9341, 9165..9284, 9166..9300, 14489..14695, 14489..14641, 14561..14740, 14568..14735, 14840..15010, 15383..15601, 15400..15585, 15401..15586, 15426..15602, 15611..15766, 15621..15767		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	1592	End	15796
GI	none	Score	161
Exons	1592..1807, 1593..1808, 1617..1811, 1636..1818, 1814..2005, 1833..1997, 1877..2023, 1910..2095, 1955..2071, 1982..2101, 2285..2449, 2351..2410, 2429..2608, 2430..2603, 8019..8204, 8058..8189, 8080..8175, 8091..8501, 8092..8502, 8092..8502, 8373..8519, 8406..8591, 8478..8597, 8478..8567, 8718..8888, 8781..8897, 8928..9107, 8932..9084, 9147..9332, 9207..9314, 14486..14668, 14486..14581, 14558..14968, 14559..14969, 14846..14986, 14851..14970, 14873..15037, 14896..14970, 14945..15064, 14945..15034, 15245..15328, 15395..15574, 15426..15557, 15614..15796		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o2.gp	Method	AAT/GAP
Start	14037	End	14422
GI	none	Score	716
Exons	14037..14422		

Seq. No.	58318	Seq. ID	OJ000310_27.0419.C9
Gene No.	121881	Strand	-
Start	14037	End	16178
Name	OJ000310_27.0419.C9.o2.np	Method	AAT/NAP
Start	14294	End	16178
GI	5734761	Score	1142
Exons	14294..16178		
GI Descrip.	(AC007651) Similar to disease resistance proteins [Arabidopsis thaliana]		

Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121882	Strand	-
Start	2137	End	2580
Name	OJ000310_27.0419.C10.o1.gs	Method	GENSCAN
Start	2137	End	2580
GI	none	Score	.98
Exons	2137..2580		

Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121883	Strand	-
Start	3739	End	7345
Name	OJ000310_27.0419.C10.o2.gs	Method	GENSCAN
Start	3739	End	7345
GI	none	Score	.45
Exons	3739..4732, 4814..6772, 7320..7345		

Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121883	Strand	-
Start	3739	End	7345
Name	OJ000310_27.0419.C10.o1.np	Method	AAT/NAP
Start	3751	End	6849
GI	6598459	Score	1829

Exons	3751..6301, 6377..6849		
GI Descrip.	(AC005312) putative receptor-like protein kinase [Arabidopsis thaliana]		
Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	2924	End	11154
GI	none	Score	59
Exons	2924..2974, 3871..4083, 3965..4021, 4090..4284, 4115..4279, 4306..4458, 4361..4609, 4480..4611, 10543..10674, 10756..10872, 10756..10875, 10882..11076, 11098..11154		
Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	3751	End	11076
GI	none	Score	70
Exons	3751..3936, 3937..4302, 4306..4608, 5020..5190, 5809..6006, 10528..10728, 10729..11076, 10774..11001		
Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	3757	End	11076
GI	none	Score	155
Exons	3757..3930, 3881..4282, 3946..4284, 4294..4605, 4358..4546, 10552..10641, 10727..10849, 10738..11076, 10752..10991, 10753..11007, 10907..11068		
Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	3897	End	11127
GI	none	Score	431
Exons	3897..4331, 3899..4291, 3900..4334, 3901..4335, 10689..11123, 10690..11127, 10690..11127		
Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o3.tw	Method	TBLASTX:Wheat
Start	4345	End	4611
GI	none	Score	69
Exons	4345..4611, 4388..4555		
Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	4846	End	6273
GI	none	Score	162
Exons	4846..5199, 4847..5116, 4951..5106, 4987..5172, 5032..5136,		

5332..5523, 5333..5503, 5713..5976, 5923..6051, 5932..6207, 6070..6105, 6073..6252, 6079..6225, 6142..6273

Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	4939	End	8255
GI	none	Score	156
Exons	4939..5076, 5020..5184, 5323..5415, 5666..5701, 5670..6023, 5670..5840, 5683..6024, 5869..6237, 6103..6339, 6145..6252, 7989..8045, 7990..8049, 8066..8131, 8131..8178, 8162..8254, 8184..8255		

Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	4945	End	8282
GI	none	Score	53
Exons	4945..5082, 4948..5154, 4948..5100, 4949..5101, 5014..5172, 5284..5424, 5321..5461, 5654..5824, 5680..5838, 5686..5787, 5842..6051, 5842..6060, 6073..6225, 6081..6203, 8087..8128, 8087..8131, 8131..8178, 8132..8179, 8142..8192, 8180..8254, 8184..8282		

Seq. No.	58319	Seq. ID	OJ000310_27.0419.C10
Gene No.	121884	Strand	-
Start	10543	End	11155
Name	OJ000310_27.0419.C10.o2.np	Method	AAT/NAP
Start	10543	End	11155
GI	6598459	Score	544
Exons	10543..11155		
GI Descrip.	(AC005312) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1	End	207
GI	none	Score	164
Exons	1..207, 2..184		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o3.tm	Method	TBLASTX:Maize
Start	1	End	210
GI	none	Score	149
Exons	1..210, 2..181		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	1	End	216

GI	none	Score	98
Exons	1..180, 1..216, 2..187		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o1.gs	Method	GENSCAN
Start	75	End	2225
GI	none	Score	.56
Exons	75..254, 789..968, 1388..2225		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	310	End	751
GI	none	Score	215
Exons	310..657, 328..630, 335..664, 542..724, 659..751, 660..749		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o1.np	Method	AAT/NAP
Start	352	End	3476
GI	5734761	Score	1175
Exons	352..2440, 3415..3476		
GI Descrip.	(AC007651) Similar to disease resistance proteins [Arabidopsis thaliana]		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	496	End	1946
GI	none	Score	61
Exons	496..615, 533..712, 545..712, 545..724, 604..798, 895..1128, 907..1062, 925..1158, 925..1125, 937..1131, 1156..1203, 1315..1398, 1323..1478, 1455..1655, 1455..1652, 1455..1667, 1462..1635, 1674..1865, 1674..1874, 1674..1865, 1674..1853, 1674..1853, 1674..1865, 1680..1865, 1680..1862, 1681..1833, 1753..1851, 1884..1946, 1891..1941		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	751	End	1943
GI	none	Score	346
Exons	751..804, 925..1032, 937..1098, 955..1128, 1264..1626, 1267..1623, 1320..1625, 1473..1838, 1594..1839, 1704..1943, 1746..1862, 1890..1916		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	904	End	1922

GI	none	Score	61
Exons	904..1125, 907..1125, 958..1125, 1320..1475, 1320..1445, 1446..1643, 1452..1652, 1570..1644, 1674..1922, 1695..1880		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	925	End	5922
GI	none	Score	70
Exons	925..1071, 937..1143, 941..1129, 1326..1439, 1443..1652, 1443..1661, 1443..1607, 1444..1656, 1662..1865, 1668..1826, 1669..1827, 1678..1827, 5833..5922		

Seq. No.	58320	Seq. ID	OJ000310_27.0419.C11
Gene No.	121885	Strand	-
Start	75	End	5922
Name	OJ000310_27.0419.C11.o2.gs	Method	GENSCAN
Start	3160	End	3444
GI	none	Score	.41
Exons	3160..3444		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121886	Strand	+
Start	10143	End	11161
Name	OJ000310_27.0419.C12.o1.gp	Method	AAT/GAP
Start	10132	End	10571
GI	11111_1.R1084	Score	774
Exons	10132..10571		
GI Descrip.	'131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121886	Strand	+
Start	10143	End	11161
Name	OJ000310_27.0419.C12.o2.gs	Method	GENSCAN
Start	10143	End	11007
GI	none	Score	.47
Exons	10143..11007		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121886	Strand	+
Start	10143	End	11161
Name	OJ000310_27.0419.C12.o2.np	Method	AAT/NAP
Start	10143	End	11161
GI	6554485	Score	1169
Exons	10143..11161		
GI Descrip.	(AC012394) unknown protein [Arabidopsis thaliana] gi|6573714|gb|AAF17634.1|AC009978_10 (AC009978) T23E18.26 [Arabidopsis thaliana]		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12

Gene No.	121886	Strand	+
Start	10143	End	11161
Name	OJ000310_27.0419.C12.o2.gp	Method	AAT/GAP
Start	10731	End	11059
GI	none	Score	620
Exons	10731..11059		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121887	Strand	-
Start	1	End	8060
Name	OJ000310_27.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	8060
GI	7228438	Score	3292
Exons	1..23, 1195..1616, 2961..3111, 3204..3465, 3550..3848, 3929..4342, 4427..4522, 6091..8060		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121887	Strand	-
Start	1	End	8060
Name	OJ000310_27.0419.C12.o1.gs	Method	GENSCAN
Start	353	End	7803
GI	none	Score	.51
Exons	353..556, 1195..1515, 1939..2156, 2220..2661, 2856..2957, 3004..3111, 3204..3465, 3550..3848, 3929..4047, 4120..4342, 4446..4615, 4704..4793, 4906..5022, 5553..5852, 6024..7803		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121887	Strand	-
Start	1	End	8060
Name	OJ000310_27.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	4520	End	4702
GI	none	Score	103
Exons	4520..4639, 4521..4640, 4638..4688, 4649..4702		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121887	Strand	-
Start	1	End	8060
Name	OJ000310_27.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	6454	End	6831
GI	none	Score	70
Exons	6454..6627, 6465..6620, 6536..6628, 6652..6828, 6677..6829, 6682..6831		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121887	Strand	-
Start	1	End	8060
Name	OJ000310_27.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	6529	End	7125
GI	none	Score	211
Exons	6529..6600, 6647..7120, 6658..7125		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121888	Strand	
Start	10140	End	11059

Name	OJ000310_27.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	10140	End	11059
GI	none	Score	1335
Exons	10140..11057, 10141..10899, 10142..11059, 10943..11059		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121888	Strand	
Start	10140	End	11059
Name	OJ000310_27.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	10209	End	11059
GI	none	Score	581
Exons	10209..10850, 10262..10849, 10916..11059, 10971..11057		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121888	Strand	
Start	10140	End	11059
Name	OJ000310_27.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	10359	End	10820
GI	none	Score	449
Exons	10359..10820, 10364..10816		

Seq. No.	58321	Seq. ID	OJ000310_27.0419.C12
Gene No.	121888	Strand	
Start	10140	End	11059
Name	OJ000310_27.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	10821	End	11059
GI	none	Score	205
Exons	10821..11057, 10823..11059		

Seq. No.	58322	Seq. ID	OJ000350_20.0419.C3
Gene No.	121889	Strand	-
Start	508	End	551
Name	OJ000350_20.0419.C3.o1.gs	Method	GENSCAN
Start	508	End	551
GI	none	Score	.57
Exons	508..551		

Seq. No.	58323	Seq. ID	OJ000350_20.0419.C4
Gene No.	121890	Strand	-
Start	253	End	1261
Name	OJ000350_20.0419.C4.o1.gs	Method	GENSCAN
Start	253	End	1261
GI	none	Score	.6
Exons	253..421, 480..613, 1214..1261		

Seq. No.	58324	Seq. ID	OJ000350_20.0419.C6
Gene No.	121891	Strand	+
Start	1505	End	3766
Name	OJ000350_20.0419.C6.o1.np	Method	AAT/NAP
Start	1505	End	3766
GI	4388818	Score	848
Exons	1505..1635, 2129..3766		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	58324	Seq. ID	OJ000350_20.0419.C6
Gene No.	121891	Strand	+

Start	1505	End	3766
Name	OJ000350_20.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	2313	End	2738
GI	none	Score	172
Exons	2313..2465, 2333..2458, 2454..2555, 2460..2549, 2462..2554, 2547..2606, 2572..2661, 2685..2738, 2693..2728		

Seq. No.	58324	Seq. ID	OJ000350_20.0419.C6
Gene No.	121891	Strand	+
Start	1505	End	3766
Name	OJ000350_20.0419.C6.o1.gp	Method	AAT/GAP
Start	3293	End	3730
GI	2428449	Score	815
Exons	3293..3730		
GI Descrip.	4388818/gb|AAD19773| 3.0e-40 (AC006528) putative pol polyprotein with a Zn-finger CCHC type domain (prosite:QDOC50158) and a DDE integrase signature motif [Arabidopsis thaliana]		

Seq. No.	58324	Seq. ID	OJ000350_20.0419.C6
Gene No.	121891	Strand	+
Start	1505	End	3766
Name	OJ000350_20.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	3457	End	3766
GI	none	Score	100
Exons	3457..3618, 3468..3605, 3592..3765, 3605..3766		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o1.gp	Method	AAT/GAP
Start	1	End	229
GI	1621494	Score	410
Exons	1..229		
GI Descrip.	1621495/dbj|BAA12903| 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	1192
GI	130582	Score	1202
Exons	1..1192		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	2	End	241
GI	none	Score	235
Exons	2..241, 37..147, 54..203		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7

Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	5	End	610
GI	none	Score	147
Exons	5..139, 176..610, 232..366, 305..460, 427..591		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	5	End	256
GI	none	Score	198
Exons	5..256, 37..150		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o1.gs	Method	GENSCAN
Start	23	End	916
GI	none	Score	.68
Exons	23..916		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	259	End	705
GI	none	Score	129
Exons	259..351, 260..421, 378..479, 394..705, 395..700, 454..702		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	584	End	1183
GI	none	Score	58
Exons	584..712, 707..811, 812..937, 974..1183, 986..1183		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	724	End	1159
GI	none	Score	152
Exons	724..906, 737..940, 958..1035, 959..1159, 968..1099		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+
Start	1	End	1192
Name	OJ000350_20.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	761	End	1185
GI	none	Score	522
Exons	761..1183, 763..1185, 1084..1185		

Seq. No.	58325	Seq. ID	OJ000350_20.0419.C7
Gene No.	121892	Strand	+

Start	1	End	1192
Name	OJ000350_20.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	785	End	1183
GI	none	Score	304
Exons	785..1060, 787..1068, 1070..1183, 1084..1182		

Seq. No.	58326	Seq. ID	OJ000350_20.0419.C8
Gene No.	121893	Strand	+
Start	20	End	102
Name	OJ000350_20.0419.C8.o1.gs	Method	GENSCAN
Start	20	End	102
GI	none	Score	.79
Exons	20..102		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1335
GI	6539553	Score	2288
Exons	1..1335		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	1	End	227
GI	none	Score	169
Exons	1..156, 3..155, 171..227, 175..225		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	102	End	441
GI	none	Score	206
Exons	102..440, 103..441		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	228	End	995
GI	none	Score	48
Exons	228..299, 450..656, 460..582, 651..995, 675..848		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	252	End	597
GI	none	Score	124
Exons	252..596, 397..597		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	531	End	996
GI	none	Score	55
Exons	531..995, 634..744, 678..860, 814..996		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	666	End	1124
GI	5509260	Score	58
Exons	666..1124, 685..744, 817..912, 961..1029		
GI Descrip.	-		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	777	End	1037
GI	none	Score	62
Exons	777..1037, 958..1035		

Seq. No.	58327	Seq. ID	OJ000350_20.0419.C9
Gene No.	121894	Strand	-
Start	1	End	1335
Name	OJ000350_20.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	1050	End	1297
GI	none	Score	194
Exons	1050..1289, 1051..1209, 1067..1297, 1070..1267		

Seq. No.	58328	Seq. ID	OJ000350_20.0419.C11
Gene No.	121895	Strand	+
Start	40	End	762
Name	OJ000350_20.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1	End	357
GI	none	Score	468
Exons	1..357, 7..348, 42..356		

Seq. No.	58328	Seq. ID	OJ000350_20.0419.C11
Gene No.	121895	Strand	+
Start	40	End	762
Name	OJ000350_20.0419.C11.o1.gs	Method	GENSCAN
Start	40	End	762
GI	none	Score	.5
Exons	40..332, 588..762		

Seq. No.	58328	Seq. ID	OJ000350_20.0419.C11
Gene No.	121895	Strand	+
Start	40	End	762
Name	OJ000350_20.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	61	End	351
GI	none	Score	186
Exons	61..351, 102..317, 124..348		

Seq. No.	58328	Seq. ID	OJ000350_20.0419.C11
Gene No.	121895	Strand	+
Start	40	End	762
Name	OJ000350_20.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	79	End	384
GI	none	Score	207
Exons	79..384, 102..317, 205..357		

Seq. No.	58329	Seq. ID	OJ000350_20.0419.C14
Gene No.	121896	Strand	+
Start	49	End	4158
Name	OJ000350_20.0419.C14.o1.gs	Method	GENSCAN
Start	49	End	4158
GI	none	Score	.85
Exons	49..87, 2570..2663, 3641..4158		

Seq. No.	58329	Seq. ID	OJ000350_20.0419.C14
Gene No.	121897	Strand	+
Start	6343	End	6678
Name	OJ000350_20.0419.C14.o2.gs	Method	GENSCAN
Start	6343	End	6678
GI	none	Score	.4
Exons	6343..6678		

Seq. No.	58329	Seq. ID	OJ000350_20.0419.C14
Gene No.	121898	Strand	-
Start	7363	End	8149
Name	OJ000350_20.0419.C14.o3.gs	Method	GENSCAN
Start	7363	End	8149
GI	none	Score	.67
Exons	7363..7629, 8045..8149		

Seq. No.	58330	Seq. ID	OJ000350_20.0419.C15
Gene No.	121899	Strand	+
Start	1971	End	3742
Name	OJ000350_20.0419.C15.o1.np	Method	AAT/NAP
Start	1971	End	3742
GI	5922629	Score	107
Exons	1971..2006, 2973..3116, 3701..3742		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016862|dbj|BAA85205.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	58330	Seq. ID	OJ000350_20.0419.C15
Gene No.	121900	Strand	-
Start	1756	End	3687
Name	OJ000350_20.0419.C15.o2.gs	Method	GENSCAN
Start	1756	End	3687
GI	none	Score	.78
Exons	1756..1961, 2785..2844, 3262..3383, 3635..3687		

Seq. No.	58331	Seq. ID	OJ000350_20.0419.C16
Gene No.	121901	Strand	+
Start	185	End	377
Name	OJ000350_20.0419.C16.o1.gs	Method	GENSCAN
Start	185	End	377

GI	none	Score	.92
Exons	185..377		

Seq. No.	58332	Seq. ID	OJ000350_20.0419.C18
Gene No.	121902	Strand	+
Start	143	End	637
Name	OJ000350_20.0419.C18.o1.gs	Method	GENSCAN
Start	143	End	605
GI	none	Score	.86
Exons	143..533, 539..605		

Seq. No.	58332	Seq. ID	OJ000350_20.0419.C18
Gene No.	121902	Strand	+
Start	143	End	637
Name	OJ000350_20.0419.C18.o1.gp	Method	AAT/GAP
Start	158	End	637
GI	none	Score	915
Exons	158..637		

Seq. No.	58332	Seq. ID	OJ000350_20.0419.C18
Gene No.	121903	Strand	+
Start	1194	End	1522
Name	OJ000350_20.0419.C18.o2.gp	Method	AAT/GAP
Start	1194	End	1522
GI	LIB3431-019-P1-K1-D5	Score	528
Exons	1194..1522		
GI Descrip.	'6015437/dbj|AB008112.1|AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	58332	Seq. ID	OJ000350_20.0419.C18
Gene No.	121904	Strand	-
Start	926	End	1394
Name	OJ000350_20.0419.C18.o2.gs	Method	GENSCAN
Start	926	End	1394
GI	none	Score	.93
Exons	926..1101, 1289..1394		

Seq. No.	58333	Seq. ID	OJ000350_20.0419.C19
Gene No.	121905	Strand	+
Start	588	End	1055
Name	OJ000350_20.0419.C19.o1.gp	Method	AAT/GAP
Start	588	End	1055
GI	LIB3431-019-P1-K1-D5	Score	801
Exons	588..1055		
GI Descrip.	'6015437/dbj|AB008112.1|AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	58333	Seq. ID	OJ000350_20.0419.C19
Gene No.	121906	Strand	-
Start	305	End	785
Name	OJ000350_20.0419.C19.o1.gs	Method	GENSCAN
Start	305	End	785
GI	none	Score	.73
Exons	305..483, 680..785		

Seq. No.	58334	Seq. ID	OJ000350_20.0419.C26
Gene No.	121907	Strand	+

Start	426	End	536
Name	OJ000350_20.0419.C26.o1.gs	Method	GENSCAN
Start	426	End	536
GI	none	Score	.4
Exons	426..536		

Seq. No.	58335	Seq. ID	OJ000350_20.0419.C28
Gene No.	121908	Strand	-
Start	233	End	631
Name	OJ000350_20.0419.C28.o1.gs	Method	GENSCAN
Start	233	End	631
GI	none	Score	.58
Exons	233..631		

Seq. No.	58336	Seq. ID	OJ000350_20.0419.C29
Gene No.	121909	Strand	-
Start	450	End	691
Name	OJ000350_20.0419.C29.o1.gs	Method	GENSCAN
Start	450	End	691
GI	none	Score	.68
Exons	450..691		

Seq. No.	58337	Seq. ID	OJ000350_20.0419.C32
Gene No.	121910	Strand	-
Start	1337	End	1448
Name	OJ000350_20.0419.C32.o1.gp	Method	AAT/GAP
Start	1337	End	1448
GI	none	Score	151
Exons	1337..1448		

Seq. No.	58338	Seq. ID	OJ000350_20.0419.C37
Gene No.	121911	Strand	+
Start	353	End	480
Name	OJ000350_20.0419.C37.o1.gs	Method	GENSCAN
Start	353	End	480
GI	none	Score	.56
Exons	353..480		

Seq. No.	58339	Seq. ID	OJ000350_20.0419.C38
Gene No.	121912	Strand	+
Start	303	End	634
Name	OJ000350_20.0419.C38.o1.gp	Method	AAT/GAP
Start	303	End	634
GI	LIB3432-008-P1-K1-D4	Score	332
Exons	303..458, 544..634		
GI Descrip.	'1730738/sp|P53946|ARP5_YEAST 4.0e-09 ACTIN-LIKE PROTEIN ARP5 >gi_2133044_pir__S58718 probable nuclear protein YNL059c - yeast (Saccharomyces cerevisiae) >gi_994827 (U12141) Ynl2430p [Saccharomyces cerevisiae] >gi_1301932_emb_CAA95933_ (Z71335) ORF YNL059c [Saccharomyces cerevisiae]'		

Seq. No.	58339	Seq. ID	OJ000350_20.0419.C38
Gene No.	121912	Strand	+
Start	303	End	634
Name	OJ000350_20.0419.C38.o1.gs	Method	GENSCAN
Start	512	End	634
GI	none	Score	.95

Exons	512..634		
Seq. No.	58340	Seq. ID	OJ000350_20.0419.C44
Gene No.	121913	Strand	-
Start	943	End	1052
Name	OJ000350_20.0419.C44.o1.gs	Method	GENSCAN
Start	943	End	1052
GI	none	Score	.41
Exons	943..1052		
Seq. No.	58341	Seq. ID	OJ000350_20.0419.C51
Gene No.	121914	Strand	+
Start	1	End	806
Name	OJ000350_20.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	806
GI	6063557	Score	175
Exons	1..97, 619..806		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		
Seq. No.	58341	Seq. ID	OJ000350_20.0419.C51
Gene No.	121914	Strand	+
Start	1	End	806
Name	OJ000350_20.0419.C51.o1.gs	Method	GENSCAN
Start	622	End	788
GI	none	Score	.86
Exons	622..788		
Seq. No.	58342	Seq. ID	OJ000350_20.0419.C52
Gene No.	121915	Strand	+
Start	128	End	743
Name	OJ000350_20.0419.C52.o1.gs	Method	GENSCAN
Start	128	End	743
GI	none	Score	.72
Exons	128..143, 673..743		
Seq. No.	58342	Seq. ID	OJ000350_20.0419.C52
Gene No.	121916	Strand	-
Start	1411	End	1710
Name	OJ000350_20.0419.C52.o2.gs	Method	GENSCAN
Start	1411	End	1710
GI	none	Score	.96
Exons	1411..1425, 1498..1710		
Seq. No.	58343	Seq. ID	OJ000350_20.0419.C53
Gene No.	121917	Strand	+
Start	901	End	1237
Name	OJ000350_20.0419.C53.o1.gs	Method	GENSCAN
Start	901	End	1237
GI	none	Score	.85
Exons	901..924, 993..1107, 1122..1237		
Seq. No.	58344	Seq. ID	OJ000350_20.0419.C55
Gene No.	121918	Strand	+
Start	80	End	522
Name	OJ000350_20.0419.C55.o1.gs	Method	GENSCAN
Start	80	End	522
GI	none	Score	.89

Exons	80..522		
Seq. No.	58345	Seq. ID	OJ000350_20.0419.C56
Gene No.	121919	Strand	+
Start	5	End	659
Name	OJ000350_20.0419.C56.o1.gs	Method	GENSCAN
Start	5	End	659
GI	none	Score	.97
Exons	5..318, 599..659		
Seq. No.	58345	Seq. ID	OJ000350_20.0419.C56
Gene No.	121919	Strand	+
Start	5	End	659
Name	OJ000350_20.0419.C56.o1.gp	Method	AAT/GAP
Start	72	End	355
GI	none	Score	526
Exons	72..355		
Seq. No.	58346	Seq. ID	OJ000350_20.0419.C60
Gene No.	121920	Strand	+
Start	417	End	488
Name	OJ000350_20.0419.C60.o1.gs	Method	GENSCAN
Start	417	End	488
GI	none	Score	.69
Exons	417..488		
Seq. No.	58346	Seq. ID	OJ000350_20.0419.C60
Gene No.	121921	Strand	-
Start	1	End	1010
Name	OJ000350_20.0419.C60.o1.np	Method	AAT/NAP
Start	1	End	1010
GI	7106516	Score	53
Exons	1..98, 433..602, 895..1010		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		
Seq. No.	58347	Seq. ID	OJ000350_20.0419.C62
Gene No.	121922	Strand	+
Start	784	End	911
Name	OJ000350_20.0419.C62.o1.gs	Method	GENSCAN
Start	784	End	911
GI	none	Score	.43
Exons	784..911		
Seq. No.	58348	Seq. ID	OJ000350_20.0419.C63
Gene No.	121923	Strand	+
Start	1541	End	1804
Name	OJ000350_20.0419.C63.o1.gs	Method	GENSCAN
Start	1541	End	1804
GI	none	Score	.99
Exons	1541..1804		
Seq. No.	58348	Seq. ID	OJ000350_20.0419.C63
Gene No.	121924	Strand	+
Start	2379	End	2818
Name	OJ000350_20.0419.C63.o2.gp	Method	AAT/GAP
Start	2379	End	2818
GI	none	Score	564

Exons	2379..2818		
Seq. No.	58348	Seq. ID	OJ000350_20.0419.C63
Gene No.	121925	Strand	+
Start	3882	End	5307
Name	OJ000350_20.0419.C63.o3.gs	Method	GENSCAN
Start	3882	End	5172
GI	none	Score	.96
Exons	3882..3954, 4831..4854, 4904..5172		
Seq. No.	58348	Seq. ID	OJ000350_20.0419.C63
Gene No.	121925	Strand	+
Start	3882	End	5307
Name	OJ000350_20.0419.C63.o3.gp	Method	AAT/GAP
Start	4849	End	5307
GI	none	Score	890
Exons	4849..5307		
Seq. No.	58348	Seq. ID	OJ000350_20.0419.C63
Gene No.	121926	Strand	-
Start	1271	End	1742
Name	OJ000350_20.0419.C63.o1.gp	Method	AAT/GAP
Start	1271	End	1742
GI	LIB3431-019-P1-K1-D5	Score	747
Exons	1271..1742		
GI Descrip.	'6015437/dbj|AB008112.1|AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		
Seq. No.	58348	Seq. ID	OJ000350_20.0419.C63
Gene No.	121927	Strand	-
Start	1933	End	2773
Name	OJ000350_20.0419.C63.o2.gs	Method	GENSCAN
Start	1933	End	2773
GI	none	Score	.44
Exons	1933..2145, 2348..2420, 2436..2773		
Seq. No.	58349	Seq. ID	OJ000350_20.0419.C69
Gene No.	121928	Strand	-
Start	1	End	886
Name	OJ000350_20.0419.C69.o1.np	Method	AAT/NAP
Start	1	End	886
GI	6539553	Score	696
Exons	1..560, 806..886		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	58349	Seq. ID	OJ000350_20.0419.C69
Gene No.	121928	Strand	-
Start	1	End	886
Name	OJ000350_20.0419.C69.o1.tm	Method	TBLASTX:Maize
Start	158	End	473
GI	none	Score	385
Exons	158..319, 159..473, 160..441		
Seq. No.	58350	Seq. ID	OJ000350_20.0419.C70

Gene No.	121929	Strand	-
Start	480	End	936
Name	OJ000350_20.0419.C70.o1.tm	Method	TBLASTX:Maize
Start	470	End	935
GI	none	Score	141
Exons	470..640, 481..645, 492..641, 566..643, 725..898, 735..899, 739..903, 741..935, 793..933		

Seq. No.	58350	Seq. ID	OJ000350_20.0419.C70
Gene No.	121929	Strand	-
Start	480	End	936
Name	OJ000350_20.0419.C70.o1.gs	Method	GENSCAN
Start	480	End	869
GI	none	Score	.96
Exons	480..639, 739..869		

Seq. No.	58350	Seq. ID	OJ000350_20.0419.C70
Gene No.	121929	Strand	-
Start	480	End	936
Name	OJ000350_20.0419.C70.o1.np	Method	AAT/NAP
Start	483	End	936
GI	7340679	Score	250
Exons	483..639, 739..936		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	58350	Seq. ID	OJ000350_20.0419.C70
Gene No.	121929	Strand	-
Start	480	End	936
Name	OJ000350_20.0419.C70.o1.tc	Method	TBLASTX:Cress
Start	492	End	926
GI	none	Score	93
Exons	492..635, 493..645, 738..764, 783..926, 793..894		

Seq. No.	58351	Seq. ID	OJ000350_20.0419.C75
Gene No.	121930	Strand	-
Start	1	End	1208
Name	OJ000350_20.0419.C75.o1.np	Method	AAT/NAP
Start	1	End	1208
GI	7340884	Score	1865
Exons	1..1208		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	58351	Seq. ID	OJ000350_20.0419.C75
Gene No.	121930	Strand	-
Start	1	End	1208
Name	OJ000350_20.0419.C75.o1.tm	Method	TBLASTX:Maize
Start	1	End	294
GI	none	Score	124
Exons	1..204, 2..199, 214..294		

Seq. No.	58351	Seq. ID	OJ000350_20.0419.C75
Gene No.	121930	Strand	-
Start	1	End	1208
Name	OJ000350_20.0419.C75.o1.gs	Method	GENSCAN
Start	36	End	1162
GI	none	Score	.64

Exons	36..574, 691..1070, 1079..1162		
Seq. No.	58351	Seq. ID	OJ000350_20.0419.C75
Gene No.	121930	Strand	-
Start	1	End	1208
Name	OJ000350_20.0419.C75.o2.tm	Method	TBLASTX:Maize
Start	388	End	896
GI	none	Score	73
Exons	388..426, 421..483, 436..501, 642..749, 652..762, 653..742,	499..645, 503..634, 626..742, 666..860, 816..896	
Seq. No.	58352	Seq. ID	OJ000350_20.0419.C76
Gene No.	121931	Strand	+
Start	1	End	1751
Name	OJ000350_20.0419.C76.o1.np	Method	AAT/NAP
Start	1	End	1751
GI	4680339	Score	125
Exons	1..173, 1510..1751		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		
Seq. No.	58352	Seq. ID	OJ000350_20.0419.C76
Gene No.	121931	Strand	+
Start	1	End	1751
Name	OJ000350_20.0419.C76.o1.gs	Method	GENSCAN
Start	49	End	1729
GI	none	Score	.93
Exons	49..1729		
Seq. No.	58353	Seq. ID	OJ000350_20.0419.C77
Gene No.	121932	Strand	-
Start	1262	End	1292
Name	OJ000350_20.0419.C77.o1.gs	Method	GENSCAN
Start	1262	End	1292
GI	none	Score	.7
Exons	1262..1292		
Seq. No.	58354	Seq. ID	OJ000350_20.0419.C78
Gene No.	121933	Strand	+
Start	1171	End	1848
Name	OJ000350_20.0419.C78.o1.gp	Method	AAT/GAP
Start	1171	End	1767
GI	72580_1.R1084	Score	857
Exons	1171..1560, 1670..1767		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-158 Rice complete chloroplast genome'		
Seq. No.	58354	Seq. ID	OJ000350_20.0419.C78
Gene No.	121933	Strand	+
Start	1171	End	1848
Name	OJ000350_20.0419.C78.o1.tc	Method	TBLASTX:Cress
Start	1187	End	1817
GI	none	Score	80
Exons	1187..1291, 1436..1504, 1526..1558, 1664..1816, 1674..1817		
Seq. No.	58354	Seq. ID	OJ000350_20.0419.C78
Gene No.	121933	Strand	+
Start	1171	End	1848

Name	OJ000350_20.0419.C78.o1.np	Method	AAT/NAP
Start	1193	End	1826
GI	7263548	Score	375
Exons	1193..1560, 1670..1826		
GI Descrip.	(AL161667) putative protein [Arabidopsis thaliana]		

Seq. No.	58354	Seq. ID	OJ000350_20.0419.C78
Gene No.	121933	Strand	+
Start	1171	End	1848
Name	OJ000350_20.0419.C78.o1.tm	Method	TBLASTX:Maize
Start	1246	End	1848
GI	none	Score	82
Exons	1246..1314, 1250..1315, 1257..1337, 1278..1340, 1382..1435, 1384..1434, 1436..1528, 1448..1504, 1449..1514, 1509..1559, 1510..1560, 1511..1558, 1664..1822, 1666..1794, 1668..1829, 1669..1848		

Seq. No.	58354	Seq. ID	OJ000350_20.0419.C78
Gene No.	121933	Strand	+
Start	1171	End	1848
Name	OJ000350_20.0419.C78.o1.ts	Method	TBLASTX:Soybean
Start	1679	End	1823
GI	none	Score	208
Exons	1679..1819, 1680..1823		

Seq. No.	58355	Seq. ID	OJ000350_20.0419.C84
Gene No.	121934	Strand	-
Start	957	End	1869
Name	OJ000350_20.0419.C84.o1.gs	Method	GENSCAN
Start	957	End	1869
GI	none	Score	.46
Exons	957..980, 1266..1361, 1849..1869		

Seq. No.	58356	Seq. ID	OJ000350_20.0419.C85
Gene No.	121935	Strand	+
Start	127	End	6711
Name	OJ000350_20.0419.C85.o1.gs	Method	GENSCAN
Start	127	End	5083
GI	none	Score	.79
Exons	127..399, 2591..2819, 3367..3472, 3573..3605, 3723..3844, 3971..4101, 4633..5083		

Seq. No.	58356	Seq. ID	OJ000350_20.0419.C85
Gene No.	121935	Strand	+
Start	127	End	6711
Name	OJ000350_20.0419.C85.o1.np	Method	AAT/NAP
Start	2943	End	6711
GI	7488408	Score	316
Exons	2943..2973, 3573..3605, 3723..3844, 3971..4101, 4633..4840, 6691..6711		
GI Descrip.	ubiquitin fusion-degradation protein UFD1 homolog T9I4.15 - Arabidopsis thaliana gi|3461847|gb|AAC33233.1| (AC005315) putative ubiquitin fusion-degradation protein [Arabidopsis thaliana]		

Seq. No.	58356	Seq. ID	OJ000350_20.0419.C85
Gene No.	121936	Strand	-

Start	6110	End	6467
Name	OJ000350_20.0419.C85.o2.gs	Method	GENSCAN
Start	6110	End	6467
GI	none	Score	.45
Exons	6110..6432, 6437..6467		

Seq. No.	58357	Seq. ID	OJ000350_20.0419.C86
Gene No.	121937	Strand	+
Start	1610	End	2809
Name	OJ000350_20.0419.C86.o1.gs	Method	GENSCAN
Start	1610	End	2809
GI	none	Score	.88
Exons	1610..1710, 1831..1901, 2489..2613, 2777..2809		

Seq. No.	58357	Seq. ID	OJ000350_20.0419.C86
Gene No.	121937	Strand	+
Start	1610	End	2809
Name	OJ000350_20.0419.C86.o1.tw	Method	TBLASTX:Wheat
Start	1634	End	2616
GI	none	Score	116
Exons	1634..1714, 1636..1713, 1828..1875, 1829..1882, 1831..1902, 1832..1903, 1869..1907, 2485..2616, 2487..2612		

Seq. No.	58358	Seq. ID	OJ000350_20.0419.C87
Gene No.	121938	Strand	+
Start	880	End	1658
Name	OJ000350_20.0419.C87.o1.gp	Method	AAT/GAP
Start	880	End	1658
GI	LIB3432-008-P1-K1-D4	Score	235
Exons	880..931, 1549..1658		
GI Descrip.	'1730738/sp|P53946|ARP5_YEAST 4.0e-09 ACTIN-LIKE PROTEIN ARP5 >gi_2133044_pir__S58718 probable nuclear protein YNL059c - yeast (Saccharomyces cerevisiae) >gi_994827 (U12141) Ynl2430p [Saccharomyces cerevisiae] >gi_1301932_emb_CAA95933_ (Z71335) ORF YNL059c [Saccharomyces cerevisiae]'		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705
Name	OJ000350_20.0419.C88.o1.np	Method	AAT/NAP
Start	1	End	1705
GI	231495	Score	89
Exons	1..58, 1501..1705		
GI Descrip.	ACTIN 1 gi|100021|pir||S25488 actin 1 - garden pea gi|20637|emb|CAA47899.1| (X67666) actin [Pisum sativum]		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705
Name	OJ000350_20.0419.C88.o2.tc	Method	TBLASTX:Cress
Start	1	End	312
GI	none	Score	187
Exons	1..219, 144..218, 210..311, 211..312		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705

Name	OJ000350_20.0419.C88.o2.ts	Method	TBLASTX:Soybean
Start	1	End	219
GI	none	Score	188
Exons	1..219, 1..78, 144..218		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705
Name	OJ000350_20.0419.C88.o1.gs	Method	GENSCAN
Start	19	End	1566
GI	none	Score	.96
Exons	19..309, 479..597, 958..1300, 1422..1566		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705
Name	OJ000350_20.0419.C88.o1.tm	Method	TBLASTX:Maize
Start	141	End	1229
GI	none	Score	183
Exons	141..308, 141..308, 142..312, 475..594, 478..594, 959..1228, 959..1225, 960..1229		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705
Name	OJ000350_20.0419.C88.o1.tc	Method	TBLASTX:Cress
Start	1031	End	1460
GI	none	Score	270
Exons	1031..1300, 1031..1225, 1056..1232, 1099..1293, 1416..1460		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705
Name	OJ000350_20.0419.C88.o1.ts	Method	TBLASTX:Soybean
Start	1034	End	1216
GI	none	Score	200
Exons	1034..1216, 1099..1215		

Seq. No.	58359	Seq. ID	OJ000350_20.0419.C88
Gene No.	121939	Strand	+
Start	1	End	1705
Name	OJ000350_20.0419.C88.o2.tm	Method	TBLASTX:Maize
Start	1445	End	1636
GI	none	Score	298
Exons	1445..1636, 1446..1634, 1504..1635		

Seq. No.	58360	Seq. ID	OJ000350_20.0419.C89
Gene No.	121940	Strand	+
Start	695	End	1019
Name	OJ000350_20.0419.C89.o1.gs	Method	GENSCAN
Start	695	End	980
GI	none	Score	.7
Exons	695..788, 807..980		

Seq. No.	58360	Seq. ID	OJ000350_20.0419.C89
Gene No.	121940	Strand	+
Start	695	End	1019

Name	OJ000350_20.0419.C89.o1.tm	Method	TBLASTX:Maize
Start	766	End	1019
GI	none	Score	125
Exons	766..912, 915..1019		

Seq. No.	58361	Seq. ID	OJ000350_20.0419.C92
Gene No.	121941	Strand	+
Start	523	End	1328
Name	OJ000350_20.0419.C92.o1.np	Method	AAT/NAP
Start	523	End	1328
GI	7485432	Score	80
Exons	523..561, 1236..1328		
GI Descrip.	hypothetical protein F13M22.18 - Arabidopsis thaliana gi|3236250|gb|AAC23638.1| (AC004684) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58361	Seq. ID	OJ000350_20.0419.C92
Gene No.	121942	Strand	-
Start	470	End	556
Name	OJ000350_20.0419.C92.o1.gs	Method	GENSCAN
Start	470	End	556
GI	none	Score	.93
Exons	470..556		

Seq. No.	58362	Seq. ID	OJ000350_20.0419.C96
Gene No.	121943	Strand	-
Start	99	End	183
Name	OJ000350_20.0419.C96.o1.gs	Method	GENSCAN
Start	99	End	183
GI	none	Score	.58
Exons	99..183		

Seq. No.	58363	Seq. ID	OJ000350_20.0419.C101
Gene No.	121944	Strand	-
Start	122	End	975
Name	OJ000350_20.0419.C101.o1.gs	Method	GENSCAN
Start	122	End	975
GI	none	Score	.42
Exons	122..172, 929..975		

Seq. No.	58364	Seq. ID	OJ000350_20.0419.C102
Gene No.	121945	Strand	+
Start	456	End	801
Name	OJ000350_20.0419.C102.o1.gs	Method	GENSCAN
Start	456	End	801
GI	none	Score	.62
Exons	456..801		

Seq. No.	58364	Seq. ID	OJ000350_20.0419.C102
Gene No.	121946	Strand	-
Start	1565	End	1897
Name	OJ000350_20.0419.C102.o2.gs	Method	GENSCAN
Start	1565	End	1897
GI	none	Score	.8
Exons	1565..1897		

Seq. No.	58365	Seq. ID	OJ000350_20.0419.C103

Gene No.	121947	Strand	+
Start	1	End	1698
Name	OJ000350_20.0419.C103.o1.np	Method	AAT/NAP
Start	1	End	1698
GI	6063557	Score	371
Exons	1..378, 627..759, 1555..1698		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	58365	Seq. ID	OJ000350_20.0419.C103
Gene No.	121948	Strand	-
Start	1153	End	1505
Name	OJ000350_20.0419.C103.o2.gs	Method	GENSCAN
Start	1153	End	1505
GI	none	Score	.99
Exons	1153..1505		

Seq. No.	58366	Seq. ID	OJ000350_20.0419.C111
Gene No.	121949	Strand	+
Start	311	End	427
Name	OJ000350_20.0419.C111.o1.gs	Method	GENSCAN
Start	311	End	427
GI	none	Score	.83
Exons	311..427		

Seq. No.	58367	Seq. ID	OJ000350_20.0419.C114
Gene No.	121950	Strand	-
Start	472	End	2839
Name	OJ000350_20.0419.C114.o1.gs	Method	GENSCAN
Start	472	End	2839
GI	none	Score	.74
Exons	472..551, 1764..1896, 1946..2140, 2453..2600, 2739..2839		

Seq. No.	58368	Seq. ID	OJ000350_20.0419.C115
Gene No.	121951	Strand	+
Start	698	End	889
Name	OJ000350_20.0419.C115.o1.gs	Method	GENSCAN
Start	698	End	889
GI	none	Score	.46
Exons	698..889		

Seq. No.	58369	Seq. ID	OJ000350_20.0419.C116
Gene No.	121952	Strand	+
Start	1	End	2826
Name	OJ000350_20.0419.C116.o1.np	Method	AAT/NAP
Start	1	End	2826
GI	7485501	Score	94
Exons	1..39, 1168..1265, 1314..1427, 2793..2826		
GI Descrip.	hypothetical protein F15B8.180 - Arabidopsis thaliana gi|4678284|emb|CAB41192.1| (AL049660) putative protein [Arabidopsis thaliana]		

Seq. No.	58369	Seq. ID	OJ000350_20.0419.C116
Gene No.	121952	Strand	+
Start	1	End	2826
Name	OJ000350_20.0419.C116.o1.gs	Method	GENSCAN
Start	363	End	900
GI	none	Score	.93

Exons	363..413, 524..592, 691..900		
Seq. No.	58369	Seq. ID	OJ000350_20.0419.C116
Gene No.	121952	Strand	+
Start	1	End	2826
Name	OJ000350_20.0419.C116.o2.np	Method	AAT/NAP
Start	2191	End	2391
GI	3928087	Score	63
Exons	2191..2391		
GI Descrip.	(AC005770) unknown protein [Arabidopsis thaliana]		
Seq. No.	58369	Seq. ID	OJ000350_20.0419.C116
Gene No.	121952	Strand	+
Start	1	End	2826
Name	OJ000350_20.0419.C116.o2.gs	Method	GENSCAN
Start	2200	End	2469
GI	none	Score	.5
Exons	2200..2469		
Seq. No.	58370	Seq. ID	OJ000350_20.0419.C117
Gene No.	121953	Strand	
Start	151	End	1128
Name	OJ000350_20.0419.C117.o1.tm	Method	TBLASTX:Maize
Start	151	End	1128
GI	none	Score	97
Exons	151..240, 152..247, 158..244, 195..260, 475..567, 475..564, 489..566, 658..690, 659..694, 660..695, 693..731, 694..753, 955..1035, 957..1022, 958..1023, 1012..1119, 1020..1103, 1021..1128, 1026..1127		
Seq. No.	58371	Seq. ID	OJ000350_20.0419.C118
Gene No.	121954	Strand	+
Start	105	End	953
Name	OJ000350_20.0419.C118.o1.gs	Method	GENSCAN
Start	105	End	953
GI	none	Score	.82
Exons	105..600, 844..953		
Seq. No.	58371	Seq. ID	OJ000350_20.0419.C118
Gene No.	121955	Strand	-
Start	1	End	2687
Name	OJ000350_20.0419.C118.o1.np	Method	AAT/NAP
Start	1	End	2524
GI	7485432	Score	508
Exons	1..38, 1551..1678, 1909..1963, 2092..2165, 2341..2524		
GI Descrip.	hypothetical protein F13M22.18 - Arabidopsis thaliana gi|3236250|gb|AAC23638.1| (AC004684) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	58371	Seq. ID	OJ000350_20.0419.C118
Gene No.	121955	Strand	-
Start	1	End	2687
Name	OJ000350_20.0419.C118.o3.tm	Method	TBLASTX:Maize
Start	2	End	212
GI	none	Score	98
Exons	2..67, 3..68, 33..179, 56..178, 162..212		

Seq. No.	58371	Seq. ID	OJ000350_20.0419.C118
Gene No.	121955	Strand	-
Start	1	End	2687
Name	OJ000350_20.0419.C118.o2.tm	Method	TBLASTX:Maize
Start	369	End	919
GI	none	Score	198
Exons	369..536, 373..567, 374..538, 685..747, 687..719, 709..768,	397..570, 536..592, 541..603, 725..769, 887..919	

Seq. No.	58371	Seq. ID	OJ000350_20.0419.C118
Gene No.	121955	Strand	-
Start	1	End	2687
Name	OJ000350_20.0419.C118.o1.tm	Method	TBLASTX:Maize
Start	1291	End	2653
GI	none	Score	42
Exons	1291..1323, 1291..1323, 1354..1452, 1551..1679, 1553..1678, 1762..1839, 1910..1975, 2087..2134, 2091..2165, 2338..2481, 2339..2479, 2591..2632,	1357..1452, 1371..1475, 1769..1855, 1909..1965, 2094..2165, 2337..2426, 2591..2653	

Seq. No.	58371	Seq. ID	OJ000350_20.0419.C118
Gene No.	121955	Strand	-
Start	1	End	2687
Name	OJ000350_20.0419.C118.o2.gs	Method	GENSCAN
Start	1372	End	2484
GI	none	Score	.91
Exons	1372..1450, 1551..1678, 1769..1831, 2341..2484		

Seq. No.	58371	Seq. ID	OJ000350_20.0419.C118
Gene No.	121955	Strand	-
Start	1	End	2687
Name	OJ000350_20.0419.C118.o1.tw	Method	TBLASTX:Wheat
Start	1939	End	2687
GI	none	Score	74
Exons	1939..1965, 2087..2134, 2091..2165, 2339..2485, 2589..2687, 2590..2628,	2092..2166, 2338..2514, 2591..2674	

Seq. No.	58372	Seq. ID	OJ000350_20.0419.C119
Gene No.	121956	Strand	+
Start	434	End	2160
Name	OJ000350_20.0419.C119.o1.gp	Method	AAT/GAP
Start	434	End	1251
GI	7340_1.R1084	Score	842
Exons	434..752, 944..1016, 1168..1251		
GI Descrip.	'2344892 7.0e-17 (AC002388) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58372	Seq. ID	OJ000350_20.0419.C119
Gene No.	121956	Strand	+
Start	434	End	2160
Name	OJ000350_20.0419.C119.o1.np	Method	AAT/NAP
Start	569	End	2160
GI	7486947	Score	348
Exons	569..763, 1594..1694, 1960..2020, 2141..2160		
GI Descrip.	hypothetical protein T13E15.7 - Arabidopsis thaliana gi|2344892|gb|AAC31832.1| (AC002388) unknown protein [Arabidopsis thaliana]		

Seq. No.	58372	Seq. ID	OJ000350_20.0419.C119
Gene No.	121956	Strand	+
Start	434	End	2160
Name	OJ000350_20.0419.C119.o2.gp	Method	AAT/GAP
Start	1582	End	2020
GI	2464_1.R1084	Score	236
Exons	1582..1692, 1957..2020		
GI Descrip.	'2344892 7.0e-12 (AC002388) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58372	Seq. ID	OJ000350_20.0419.C119
Gene No.	121957	Strand	-
Start	321	End	944
Name	OJ000350_20.0419.C119.o1.gs	Method	GENSCAN
Start	321	End	944
GI	none	Score	.78
Exons	321..944		

Seq. No.	58373	Seq. ID	OJ000350_20.0419.C120
Gene No.	121958	Strand	+
Start	234	End	3363
Name	OJ000350_20.0419.C120.o1.gp	Method	AAT/GAP
Start	234	End	2066
GI	3061080	Score	798
Exons	234..319, 484..671, 769..808, 1317..1358, 1962..2066		

Seq. No.	58373	Seq. ID	OJ000350_20.0419.C120
Gene No.	121958	Strand	+
Start	234	End	3363
Name	OJ000350_20.0419.C120.o1.tm	Method	TBLASTX:Maize
Start	542	End	2334
GI	none	Score	106
Exons	542..655, 548..685, 549..686, 768..809, 768..809, 769..810, 1268..1360, 1270..1365, 1279..1359, 1956..2327, 1959..2330, 1960..2334, 1961..2332		

Seq. No.	58373	Seq. ID	OJ000350_20.0419.C120
Gene No.	121958	Strand	+
Start	234	End	3363
Name	OJ000350_20.0419.C120.o1.gs	Method	GENSCAN
Start	549	End	2330
GI	none	Score	.48
Exons	549..671, 769..808, 1317..1358, 1962..2330		

Seq. No.	58373	Seq. ID	OJ000350_20.0419.C120
Gene No.	121958	Strand	+
Start	234	End	3363
Name	OJ000350_20.0419.C120.o1.np	Method	AAT/NAP
Start	549	End	3363
GI	6723417	Score	522
Exons	549..671, 769..810, 1919..2334, 3331..3363		
GI Descrip.	(AL132965) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58373	Seq. ID	OJ000350_20.0419.C120
Gene No.	121958	Strand	+
Start	234	End	3363

Name	OJ000350_20.0419.C120.o1.ts	Method	TBLASTX:Soybean
Start	549	End	2332
GI	none	Score	96
Exons	549..671, 1964..2332, 1975..2331		

Seq. No.	58373	Seq. ID	OJ000350_20.0419.C120
Gene No.	121958	Strand	+
Start	234	End	3363
Name	OJ000350_20.0419.C120.o1.tc	Method	TBLASTX:Cress
Start	549	End	2335
GI	none	Score	104
Exons	549..671, 1962..2276, 1963..2331, 1964..2335		

Seq. No.	58374	Seq. ID	OJ000350_20.0419.C121
Gene No.	121959	Strand	+
Start	1	End	810
Name	OJ000350_20.0419.C121.o1.np	Method	AAT/NAP
Start	1	End	636
GI	6723417	Score	150
Exons	1..35, 449..636		
GI Descrip.	(AL132965) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58374	Seq. ID	OJ000350_20.0419.C121
Gene No.	121959	Strand	+
Start	1	End	810
Name	OJ000350_20.0419.C121.o1.gp	Method	AAT/GAP
Start	516	End	810
GI	3107133	Score	484
Exons	516..810		

Seq. No.	58374	Seq. ID	OJ000350_20.0419.C121
Gene No.	121960	Strand	-
Start	765	End	1006
Name	OJ000350_20.0419.C121.o1.tc	Method	TBLASTX:Cress
Start	454	End	628
GI	none	Score	192
Exons	454..624, 486..626, 494..628		

Seq. No.	58374	Seq. ID	OJ000350_20.0419.C121
Gene No.	121960	Strand	-
Start	765	End	1006
Name	OJ000350_20.0419.C121.o1.tm	Method	TBLASTX:Maize
Start	454	End	911
GI	none	Score	229
Exons	454..630, 482..634, 482..619, 486..644, 706..756, 706..762, 707..799, 793..909, 794..910, 879..911		

Seq. No.	58374	Seq. ID	OJ000350_20.0419.C121
Gene No.	121960	Strand	-
Start	765	End	1006
Name	OJ000350_20.0419.C121.o1.ts	Method	TBLASTX:Soybean
Start	454	End	632
GI	none	Score	182
Exons	454..630, 486..632		

Seq. No.	58374	Seq. ID	OJ000350_20.0419.C121
Gene No.	121960	Strand	-

Start	765	End	1006
Name	OJ000350_20.0419.C121.o2.gp	Method	AAT/GAP
Start	765	End	1006
GI	none	Score	382
Exons	765..1006		

Seq. No.	58375	Seq. ID	OJ000350_20.0419.C122
Gene No.	121961	Strand	+
Start	467	End	1167
Name	OJ000350_20.0419.C122.o1.gp	Method	AAT/GAP
Start	467	End	755
GI	none	Score	532
Exons	467..755		

Seq. No.	58375	Seq. ID	OJ000350_20.0419.C122
Gene No.	121961	Strand	+
Start	467	End	1167
Name	OJ000350_20.0419.C122.o1.gs	Method	GENSCAN
Start	508	End	1167
GI	none	Score	.91
Exons	508..792, 1018..1167		

Seq. No.	58376	Seq. ID	OJ000350_20.0419.C123
Gene No.	121962	Strand	+
Start	1	End	103
Name	OJ000350_20.0419.C123.o1.gp	Method	AAT/GAP
Start	1	End	103
GI	93437_1.R1084	Score	184
Exons	1..103		
GI Descrip.	'1621495/dbj|BAA12903| 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]'		

Seq. No.	58376	Seq. ID	OJ000350_20.0419.C123
Gene No.	121963	Strand	+
Start	605	End	817
Name	OJ000350_20.0419.C123.o1.gs	Method	GENSCAN
Start	605	End	817
GI	none	Score	.93
Exons	605..817		

Seq. No.	58377	Seq. ID	OJ000350_20.0419.C124
Gene No.	121964	Strand	+
Start	97	End	2575
Name	OJ000350_20.0419.C124.o1.gs	Method	GENSCAN
Start	97	End	2430
GI	none	Score	.7
Exons	97..120, 233..349, 583..908, 945..1350, 1391..1596, 1635..1885, 1937..2430		

Seq. No.	58377	Seq. ID	OJ000350_20.0419.C124
Gene No.	121964	Strand	+
Start	97	End	2575
Name	OJ000350_20.0419.C124.o1.np	Method	AAT/NAP
Start	609	End	2575
GI	4680339	Score	103
Exons	609..645, 2137..2349, 2525..2575		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	58377	Seq. ID	OJ000350_20.0419.C124
Gene No.	121964	Strand	+
Start	97	End	2575
Name	OJ000350_20.0419.C124.o1.tm	Method	TBLASTX:Maize
Start	1951	End	2331
GI	none	Score	48
Exons	1951..2031, 2107..2331, 2187..2309		

Seq. No.	58378	Seq. ID	OJ000350_20.0419.C127
Gene No.	121965	Strand	+
Start	366	End	512
Name	OJ000350_20.0419.C127.o1.gs	Method	GENSCAN
Start	366	End	512
GI	none	Score	.79
Exons	366..512		

Seq. No.	58379	Seq. ID	OJ000350_20.0419.C128
Gene No.	121966	Strand	+
Start	1	End	1855
Name	OJ000350_20.0419.C128.o1.np	Method	AAT/NAP
Start	1	End	495
GI	6539553	Score	641
Exons	1..495		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	58379	Seq. ID	OJ000350_20.0419.C128
Gene No.	121966	Strand	+
Start	1	End	1855
Name	OJ000350_20.0419.C128.o1.tw	Method	TBLASTX:Wheat
Start	74	End	359
GI	none	Score	330
Exons	74..280, 88..321, 88..324, 93..359, 105..359		

Seq. No.	58379	Seq. ID	OJ000350_20.0419.C128
Gene No.	121966	Strand	+
Start	1	End	1855
Name	OJ000350_20.0419.C128.o1.gs	Method	GENSCAN
Start	157	End	1855
GI	none	Score	.54
Exons	157..494, 1287..1427, 1620..1855		

Seq. No.	58380	Seq. ID	OJ000350_20.0419.C129
Gene No.	121967	Strand	+
Start	135	End	1951
Name	OJ000350_20.0419.C129.o1.gs	Method	GENSCAN
Start	135	End	1951
GI	none	Score	.77
Exons	135..230, 502..623, 1847..1951		

Seq. No.	58380	Seq. ID	OJ000350_20.0419.C129
Gene No.	121968	Strand	-
Start	2409	End	2482
Name	OJ000350_20.0419.C129.o2.gs	Method	GENSCAN

Start	2409	End	2482
GI	none	Score	.41
Exons	2409..2482		

Seq. No.	58381	Seq. ID	OJ000350_20.0419.C130
Gene No.	121969	Strand	-
Start	40	End	1347
Name	OJ000350_20.0419.C130.o1.gs	Method	GENSCAN
Start	40	End	1347
GI	none	Score	.53
Exons	40..220, 611..657, 1246..1347		

Seq. No.	58382	Seq. ID	OJ000350_20.0419.C138
Gene No.	121970	Strand	-
Start	108	End	1418
Name	OJ000350_20.0419.C138.o1.gs	Method	GENSCAN
Start	108	End	1079
GI	none	Score	.74
Exons	108..291, 482..604, 697..1079		

Seq. No.	58382	Seq. ID	OJ000350_20.0419.C138
Gene No.	121970	Strand	-
Start	108	End	1418
Name	OJ000350_20.0419.C138.o1.np	Method	AAT/NAP
Start	111	End	1418
GI	7340884	Score	313
Exons	111..332, 1336..1418		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	58382	Seq. ID	OJ000350_20.0419.C138
Gene No.	121970	Strand	-
Start	108	End	1418
Name	OJ000350_20.0419.C138.o2.tm	Method	TBLASTX:Maize
Start	132	End	314
GI	none	Score	117
Exons	132..314, 181..312		

Seq. No.	58382	Seq. ID	OJ000350_20.0419.C138
Gene No.	121970	Strand	-
Start	108	End	1418
Name	OJ000350_20.0419.C138.o1.gp	Method	AAT/GAP
Start	322	End	911
GI	93437_1.R1084	Score	932
Exons	322..604, 697..911		
GI Descrip.	'1621495/dbj|BAA12903| 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]'		

Seq. No.	58382	Seq. ID	OJ000350_20.0419.C138
Gene No.	121970	Strand	-
Start	108	End	1418
Name	OJ000350_20.0419.C138.o1.tm	Method	TBLASTX:Maize
Start	418	End	1090
GI	none	Score	228
Exons	418..609, 419..607, 696..770, 723..848, 730..852, 743..859, 744..860, 906..1085, 924..1085, 941..1090		

Seq. No.	58382	Seq. ID	OJ000350_20.0419.C138
Gene No.	121970	Strand	-
Start	108	End	1418
Name	OJ000350_20.0419.C138.o3.np	Method	AAT/NAP
Start	448	End	1418
GI	7263548	Score	252
Exons	448..604, 697..903, 931..1063, 1330..1418		
GI Descrip.	(AL161667) putative protein [Arabidopsis thaliana]		

Seq. No.	58383	Seq. ID	OJ000350_20.0419.C142
Gene No.	121971	Strand	-
Start	988	End	1265
Name	OJ000350_20.0419.C142.o1.gs	Method	GENSCAN
Start	988	End	1265
GI	none	Score	.82
Exons	988..1076, 1160..1265		

Seq. No.	58384	Seq. ID	OJ000350_20.0419.C143
Gene No.	121972	Strand	+
Start	1405	End	5825
Name	OJ000350_20.0419.C143.o1.gs	Method	GENSCAN
Start	1405	End	5825
GI	none	Score	.61
Exons	1405..1530, 2061..2338, 5636..5825		

Seq. No.	58384	Seq. ID	OJ000350_20.0419.C143
Gene No.	121973	Strand	-
Start	51	End	1575
Name	OJ000350_20.0419.C143.o1.np	Method	AAT/NAP
Start	51	End	1575
GI	7340860	Score	72
Exons	51..73, 1471..1575		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58385	Seq. ID	OJ000350_20.0419.C144
Gene No.	121974	Strand	-
Start	33	End	224
Name	OJ000350_20.0419.C144.o1.gs	Method	GENSCAN
Start	33	End	224
GI	none	Score	.86
Exons	33..224		

Seq. No.	58386	Seq. ID	OJ000320_20.0419.C1
Gene No.	121975	Strand	+
Start	6465	End	7946
Name	OJ000320_20.0419.C1.o1.np	Method	AAT/NAP
Start	6465	End	7946
GI	4559351	Score	367
Exons	6465..6541, 6669..7328, 7413..7574, 7663..7946		
GI Descrip.	(AC006585) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58386	Seq. ID	OJ000320_20.0419.C1
Gene No.	121975	Strand	+
Start	6465	End	7946
Name	OJ000320_20.0419.C1.o2.gp	Method	AAT/GAP
Start	6718	End	7004

GI	568707	Score	476
Exons	6718..7004		

Seq. No.	58386	Seq. ID	OJ000320_20.0419.C1
Gene No.	121976	Strand	+
Start	7855	End	7946
Name	OJ000320_20.0419.C1.o3.gp	Method	AAT/GAP
Start	7855	End	7946
GI	700185	Score	184
Exons	7855..7946		

Seq. No.	58386	Seq. ID	OJ000320_20.0419.C1
Gene No.	121977	Strand	-
Start	222	End	3787
Name	OJ000320_20.0419.C1.o1.gp	Method	AAT/GAP
Start	222	End	3787
GI	uC-osflcyp086a12b1	Score	567
Exons	222..321, 3541..3787		
GI Descrip.	'5816992/emb|CAB53647.1| 4.0e-24 (AL110123) putative protein [Arabidopsis thaliana]'		

Seq. No.	58386	Seq. ID	OJ000320_20.0419.C1
Gene No.	121978	Strand	
Start	6938	End	7796
Name	OJ000320_20.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	6938	End	7796
GI	none	Score	94
Exons	6938..7012, 6940..6996, 6990..7094, 6997..7101, 6998..7093, 7095..7328, 7096..7329, 7097..7330, 7097..7327, 7403..7552, 7407..7580, 7409..7579, 7660..7794, 7662..7796		

Seq. No.	58387	Seq. ID	OJ000320_20.0419.C2
Gene No.	121979	Strand	+
Start	591	End	774
Name	OJ000320_20.0419.C2.o1.gs	Method	GENSCAN
Start	591	End	774
GI	none	Score	.59
Exons	591..774		

Seq. No.	58387	Seq. ID	OJ000320_20.0419.C2
Gene No.	121980	Strand	-
Start	1	End	298
Name	OJ000320_20.0419.C2.o1.gp	Method	AAT/GAP
Start	1	End	298
GI	none	Score	518
Exons	1..298		

Seq. No.	58388	Seq. ID	OJ000320_20.0419.C3
Gene No.	121981	Strand	+
Start	427	End	533
Name	OJ000320_20.0419.C3.o1.gs	Method	GENSCAN
Start	427	End	533
GI	none	Score	.85
Exons	427..533		

Seq. No.	58389	Seq. ID	OJ000320_20.0419.C4
Gene No.	121982	Strand	-

Start	1149	End	1378
Name	OJ000320_20.0419.C4.o2.gs	Method	GENSCAN
Start	1149	End	1378
GI	none	Score	.97
Exons	1149..1238, 1343..1378		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121983	Strand	+
Start	7359	End	10581
Name	OJ000320_20.0419.C5.o1.np	Method	AAT/NAP
Start	7359	End	10578
GI	6907089	Score	4370
Exons	7359..8621, 8720..10578		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121983	Strand	+
Start	7359	End	10581
Name	OJ000320_20.0419.C5.o3.gs	Method	GENSCAN
Start	7359	End	10581
GI	none	Score	.58
Exons	7359..7822, 7892..8594, 8622..8663, 8754..9252, 9319..10118, 10159..10581		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121984	Strand	-
Start	192	End	708
Name	OJ000320_20.0419.C5.o1.gs	Method	GENSCAN
Start	192	End	708
GI	none	Score	.7
Exons	192..215, 409..441, 463..559, 574..708		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121985	Strand	-
Start	2629	End	6135
Name	OJ000320_20.0419.C5.o2.gs	Method	GENSCAN
Start	2629	End	6135
GI	none	Score	.66
Exons	2629..2652, 3059..3158, 3389..3476, 3584..3697, 4945..5041, 5089..5181, 5568..5640, 6110..6135		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o4.gs	Method	GENSCAN
Start	11204	End	18610
GI	none	Score	.61
Exons	11204..13735, 13759..14973, 15037..17418, 17472..17580, 18045..18087, 18499..18610		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o5.tm	Method	TBLASTX:Maize
Start	11204	End	11348
GI	none	Score	128
Exons	11204..11347, 11208..11348		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o2.np	Method	AAT/NAP
Start	11207	End	17400
GI	7228457	Score	9105
Exons	11207..12757, 12824..13630, 13679..14016, 14139..14973, 15037..16972, 17034..17400		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o7.tw	Method	TBLASTX:Wheat
Start	11216	End	11818
GI	none	Score	77
Exons	11216..11341, 11220..11342, 11402..11680, 11516..11677, 11535..11813, 11535..11705, 11735..11818, 11755..11814		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o4.tw	Method	TBLASTX:Wheat
Start	11819	End	12200
GI	none	Score	215
Exons	11819..12199, 11850..12200		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o3.tm	Method	TBLASTX:Maize
Start	11994	End	12337
GI	none	Score	211
Exons	11994..12143, 12014..12337, 12027..12293		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o8.tw	Method	TBLASTX:Wheat
Start	12530	End	12842
GI	none	Score	59
Exons	12530..12781, 12744..12842		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o5.tw	Method	TBLASTX:Wheat
Start	12845	End	16346
GI	none	Score	88
Exons	12845..12994, 12846..12983, 13028..13237, 13038..13214, 16293..16346		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-

Start	11204	End	21896
Name	OJ000320_20.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	14000	End	14395
GI	none	Score	288
Exons	14000..14395, 14003..14353, 14011..14394		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	14011	End	14316
GI	none	Score	84
Exons	14011..14316, 14156..14299		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	14068	End	14452
GI	none	Score	232
Exons	14068..14451, 14087..14452		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	14479	End	14835
GI	none	Score	73
Exons	14479..14595, 14479..14835, 14489..14800		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	14503	End	14965
GI	none	Score	219
Exons	14503..14964, 14509..14964, 14510..14965		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	14560	End	14925
GI	none	Score	117
Exons	14560..14694, 14701..14925		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	15130	End	15616
GI	none	Score	168
Exons	15130..15615, 15161..15421, 15443..15616		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896

Name	OJ000320_20.0419.C5.o4.np	Method	AAT/NAP
Start	15301	End	19105
GI	6721547	Score	84
Exons	15301..15336, 19022..19105		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o6.tw	Method	TBLASTX:Wheat
Start	16354	End	18195
GI	none	Score	83
Exons	16354..16611, 16466..16627, 16594..16692, 16595..16675, 16699..16743, 18151..18195		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o4.tm	Method	TBLASTX:Maize
Start	16456	End	16740
GI	none	Score	108
Exons	16456..16704, 16457..16702, 16468..16740		

Seq. No.	58390	Seq. ID	OJ000320_20.0419.C5
Gene No.	121986	Strand	-
Start	11204	End	21896
Name	OJ000320_20.0419.C5.o3.np	Method	AAT/NAP
Start	17629	End	21896
GI	5042454	Score	210
Exons	17629..17689, 18051..18216, 21867..21896		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121987	Strand	+
Start	1	End	81
Name	OJ000320_20.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	81
GI	7523512	Score	148
Exons	1..81		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121988	Strand	+
Start	154	End	3573
Name	OJ000320_20.0419.C6.o1.gp	Method	AAT/GAP
Start	154	End	355
GI	427610	Score	294
Exons	154..355		
GI Descrip.	5852172/emb|CAB55410.1| 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121988	Strand	+
Start	154	End	3573
Name	OJ000320_20.0419.C6.o1.gs	Method	GENSCAN
Start	215	End	3533
GI	none	Score	.65

Exons	215..350, 560..595, 1267..1392, 2349..2530, 2610..2696, 3402..3533		
Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121988	Strand	+
Start	154	End	3573
Name	OJ000320_20.0419.C6.o3.np	Method	AAT/NAP
Start	2264	End	3573
GI	7485716	Score	687
Exons	2264..2530, 2610..2732, 3402..3573		
GI Descrip.	hypothetical protein F18E5.190 - Arabidopsis thaliana gi|3080401|emb|CAA18721.1| (AL022603) putative protein [Arabidopsis thaliana] gi|4455265|emb|CAB36801.1| (AL035527) putative protein [Arabidopsis thaliana] gi|7268954|emb|CAB81264.1| (AL161555) putative protein [Arabidopsis thaliana]		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121989	Strand	-
Start	1	End	930
Name	OJ000320_20.0419.C6.o2.np	Method	AAT/NAP
Start	1	End	930
GI	7340860	Score	133
Exons	1..31, 329..379, 431..683, 782..930		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121990	Strand	
Start	2245	End	3573
Name	OJ000320_20.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	2245	End	3573
GI	none	Score	441
Exons	2245..2493, 2249..2533, 2249..2533, 2250..2540, 2250..2534, 2595..2717, 2608..2730, 2609..2731, 2613..2732, 3380..3571, 3387..3572, 3388..3573		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121990	Strand	
Start	2245	End	3573
Name	OJ000320_20.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	2246	End	2654
GI	none	Score	448
Exons	2246..2533, 2248..2493, 2249..2533, 2250..2540, 2595..2654, 2608..2652, 2610..2654		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121990	Strand	
Start	2245	End	3573
Name	OJ000320_20.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	2266	End	3572
GI	none	Score	342
Exons	2266..2490, 2267..2533, 2339..2521, 2595..2717, 2612..2728, 3393..3572, 3401..3571		

Seq. No.	58391	Seq. ID	OJ000320_20.0419.C6
Gene No.	121990	Strand	

Start	2245	End	3573
Name	OJ000320_20.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	2266	End	3572
GI	none	Score	353
Exons	2266..2493, 2267..2533, 2285..2530, 2595..2717, 2608..2712, 2609..2749, 2612..2728, 3393..3572, 3401..3571		

Seq. No.	58392	Seq. ID	OJ000320_20.0419.C7
Gene No.	121991	Strand	+
Start	1	End	644
Name	OJ000320_20.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	641
GI	7485716	Score	216
Exons	1..40, 427..641		
GI Descrip.	hypothetical protein F18E5.190 - Arabidopsis thaliana gi|3080401|emb|CAA18721.1| (AL022603) putative protein [Arabidopsis thaliana] gi|4455265|emb|CAB36801.1| (AL035527) putative protein [Arabidopsis thaliana] gi|7268954|emb|CAB81264.1| (AL161555) putative protein [Arabidopsis thaliana]		

Seq. No.	58392	Seq. ID	OJ000320_20.0419.C7
Gene No.	121991	Strand	+
Start	1	End	644
Name	OJ000320_20.0419.C7.o1.gs	Method	GENSCAN
Start	441	End	644
GI	none	Score	1
Exons	441..644		

Seq. No.	58392	Seq. ID	OJ000320_20.0419.C7
Gene No.	121992	Strand	+
Start	5054	End	6423
Name	OJ000320_20.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	427	End	665
GI	none	Score	325
Exons	427..534, 431..643, 432..644, 453..665, 592..648		

Seq. No.	58392	Seq. ID	OJ000320_20.0419.C7
Gene No.	121992	Strand	+
Start	5054	End	6423
Name	OJ000320_20.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	431	End	654
GI	none	Score	333
Exons	431..652, 432..653, 601..654		

Seq. No.	58392	Seq. ID	OJ000320_20.0419.C7
Gene No.	121992	Strand	+
Start	5054	End	6423
Name	OJ000320_20.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	431	End	641
GI	none	Score	223
Exons	431..613, 432..608, 474..641		

Seq. No.	58392	Seq. ID	OJ000320_20.0419.C7
Gene No.	121992	Strand	+
Start	5054	End	6423
Name	OJ000320_20.0419.C7.o2.np	Method	AAT/NAP

Start	5054	End	6423
GI	6498436	Score	36
Exons	5054..5237, 6389..6423		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	58393	Seq. ID	OJ000320_20.0419.C8
Gene No.	121993	Strand	+
Start	105	End	1258
Name	OJ000320_20.0419.C8.o1.np	Method	AAT/NAP
Start	105	End	1258
GI	7514666	Score	101
Exons	105..314, 1226..1258		
GI Descrip.	cytochrome b559 component psbE - beet chloroplast gi|860891|emb|CAA60967.1| (X87636) PSII cytochome b559 alpha chain [Beta vulgaris] gi|860897|emb|CAA60972.1| (X87637) PSII cytochrome b599 alpha chain [Beta vulgaris]		

Seq. No.	58393	Seq. ID	OJ000320_20.0419.C8
Gene No.	121994	Strand	-
Start	1	End	70
Name	OJ000320_20.0419.C8.o1.gp	Method	AAT/GAP
Start	1	End	70
GI	5607605	Score	114
Exons	1..70		
GI Descrip.	11957/emb|X15901|CHOSXX 1.0e-158 Rice complete chloroplast genome		

Seq. No.	58393	Seq. ID	OJ000320_20.0419.C8
Gene No.	121995	Strand	
Start	67	End	245
Name	OJ000320_20.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	67	End	232
GI	none	Score	175
Exons	67..186, 68..211, 68..199, 69..200, 70..207, 158..232, 180..230		

Seq. No.	58393	Seq. ID	OJ000320_20.0419.C8
Gene No.	121995	Strand	
Start	67	End	245
Name	OJ000320_20.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	93	End	245
GI	none	Score	74
Exons	93..134, 93..137, 94..141, 136..189, 137..190, 137..190, 138..197, 176..244, 184..243, 192..245, 198..245		

Seq. No.	58394	Seq. ID	OJ000320_20.0419.C9
Gene No.	121996	Strand	+
Start	762	End	1127
Name	OJ000320_20.0419.C9.o1.gs	Method	GENSCAN
Start	762	End	1127
GI	none	Score	.76
Exons	762..884, 912..1127		

Seq. No.	58395	Seq. ID	OJ000320_20.0419.C11
Gene No.	121997	Strand	-
Start	1	End	1723
Name	OJ000320_20.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1636

GI	4559351	Score	340
Exons	1..314, 439..600, 910..1636		
GI Descrip.	(AC006585) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58395	Seq. ID	OJ000320_20.0419.C11
Gene No.	121997	Strand	-
Start	1	End	1723
Name	OJ000320_20.0419.C11.o1.gp	Method	AAT/GAP
Start	15	End	327
GI	none	Score	577
Exons	15..327		

Seq. No.	58395	Seq. ID	OJ000320_20.0419.C11
Gene No.	121997	Strand	-
Start	1	End	1723
Name	OJ000320_20.0419.C11.o1.gs	Method	GENSCAN
Start	32	End	1723
GI	none	Score	.66
Exons	32..314, 433..600, 910..1563, 1679..1723		

Seq. No.	58395	Seq. ID	OJ000320_20.0419.C11
Gene No.	121997	Strand	-
Start	1	End	1723
Name	OJ000320_20.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	183	End	1278
GI	none	Score	97
Exons	183..317, 183..326, 910..1059, 910..1134, 1013..1141, 1150..1278		

Seq. No.	58396	Seq. ID	OJ000320_20.0419.C12
Gene No.	121998	Strand	+
Start	54	End	1325
Name	OJ000320_20.0419.C12.o2.np	Method	AAT/NAP
Start	54	End	1325
GI	7523512	Score	186
Exons	54..95, 1203..1325		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58396	Seq. ID	OJ000320_20.0419.C12
Gene No.	121999	Strand	-
Start	1	End	1688
Name	OJ000320_20.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	863
GI	5042454	Score	250
Exons	1..82, 136..253, 724..863		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58396	Seq. ID	OJ000320_20.0419.C12
Gene No.	121999	Strand	-
Start	1	End	1688
Name	OJ000320_20.0419.C12.o1.gs	Method	GENSCAN
Start	136	End	1688
GI	none	Score	.54
Exons	136..346, 533..566, 718..760, 1043..1070, 1602..1688		

Seq. No.	58397	Seq. ID	OJ000320_20.0419.C14
Gene No.	122000	Strand	-
Start	715	End	1263

Name	OJ000320_20.0419.C14.o1.gs	Method	GENSCAN
Start	715	End	1263
GI	none	Score	.59
Exons	715..829, 1202..1263		

Seq. No.	58398	Seq. ID	OJ000320_20.0419.C15
Gene No.	122001	Strand	-
Start	74	End	1502
Name	OJ000320_20.0419.C15.o1.gs	Method	GENSCAN
Start	74	End	1502
GI	none	Score	.49
Exons	74..219, 298..493, 532..658, 1418..1502		

Seq. No.	58399	Seq. ID	OJ000320_20.0419.C17
Gene No.	122002	Strand	+
Start	727	End	1247
Name	OJ000320_20.0419.C17.o1.gs	Method	GENSCAN
Start	727	End	1247
GI	none	Score	.58
Exons	727..797, 1172..1247		

Seq. No.	58400	Seq. ID	OJ000320_20.0419.C18
Gene No.	122003	Strand	+
Start	104	End	402
Name	OJ000320_20.0419.C18.o1.gs	Method	GENSCAN
Start	104	End	402
GI	none	Score	.42
Exons	104..402		

Seq. No.	58401	Seq. ID	OJ000320_20.0419.C21
Gene No.	122004	Strand	-
Start	990	End	1241
Name	OJ000320_20.0419.C21.o1.gs	Method	GENSCAN
Start	990	End	1241
GI	none	Score	.52
Exons	990..1241		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o1.gs	Method	GENSCAN
Start	36	End	8133
GI	none	Score	.83
Exons	36..198, 327..421, 521..580, 667..775, 864..1030, 1120..1239, 1327..1413, 1494..1622, 2072..2152, 2238..2300, 2389..2565, 2870..2902, 3036..3155, 3251..3359, 3442..3661, 3746..3831, 3917..3978, 4075..4111, 4216..4274, 4378..4463, 4568..4748, 5982..6111, 6232..6356, 6853..6979, 7078..7202, 7287..7451, 8041..8133		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o1.np	Method	AAT/NAP
Start	105	End	4690
GI	4204309	Score	1098
Exons	105..235, 327..421, 521..775, 864..1038, 1082..1239, 1494..1622,		

1710..1788, 1877..1968, 2087..2152, 2389..2544, 2831..2902, 3027..3155, 3251..3680, 4327..4463, 4568..4690

GI Descrip. (AC003027) lcl|prt_seq No definition line found [Arabidopsis thaliana]

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	142	End	901
GI	none	Score	135
Exons	142..237, 152..247, 324..425, 518..562, 522..563, 653..775,	326..433, 329..424, 333..449, 667..774, 851..901	

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o5.tm	Method	TBLASTX:Maize
Start	1318	End	1601
GI	none	Score	76
Exons	1318..1395, 1322..1405, 1327..1380, 1329..1409, 1470..1601, 1519..1599		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o2.np	Method	AAT/NAP
Start	1462	End	4690
GI	4204309	Score	564
Exons	1462..1622, 1710..1788, 1877..1968, 2087..2152, 2389..2544, 2831..2902, 3027..3155, 3251..3680, 4327..4463, 4568..4690		

GI Descrip. (AC003027) lcl|prt_seq No definition line found [Arabidopsis thaliana]

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	1602	End	2560
GI	none	Score	72
Exons	1602..1631, 1711..1791, 1711..1788, 1711..1785, 1877..1942, 1879..1947, 2071..2151, 2072..2149, 2072..2152, 2076..2153, 2235..2270, 2236..2301, 2238..2312, 2368..2511, 2386..2559, 2386..2550, 2390..2560, 2390..2560		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o1.gp	Method	AAT/GAP
Start	4334	End	4793
GI	569601	Score	547
Exons	4334..4463, 4568..4793		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o2.gp	Method	AAT/GAP

Start	5586	End	6997
GI	2883_1.R1084	Score	1292
Exons	5586..5871, 5950..6111, 6232..6356, 6853..6997		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o4.tm	Method	TBLASTX:Maize
Start	5756	End	6282
GI	none	Score	34
Exons	5756..5782, 5832..5873, 5833..5874, 5946..6077, 5947..6123, 5947..6123, 6225..6281, 6229..6282		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o3.np	Method	AAT/NAP
Start	5922	End	8279
GI	3819699	Score	240
Exons	5922..6111, 6232..6356, 6853..6977, 7058..7202, 7287..7451, 8041..8136, 8204..8279		
GI Descrip.	(AJ009609) BnMAP4K alpha2 [Brassica napus]		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	6282	End	8091
GI	none	Score	66
Exons	6282..6374, 6286..6357, 6291..6359, 6854..6904, 6915..6974, 6919..6981, 7086..7169, 7087..7203, 7096..7203, 7264..7452, 7287..7454, 7287..7451, 8026..8091, 8026..8091		

Seq. No.	58402	Seq. ID	OJ000320_20.0419.C22
Gene No.	122005	Strand	-
Start	36	End	8279
Name	OJ000320_20.0419.C22.o3.gp	Method	AAT/GAP
Start	7133	End	8279
GI	40396_1.R1084	Score	736
Exons	7133..7202, 7287..7451, 8041..8133, 8204..8279		
GI Descrip.	'3819697/emb|CAA08757| 3.0e-18 (AJ009608) BnMAP4K alpha1 [Brassica napus]'		

Seq. No.	58403	Seq. ID	OJ000320_20.0419.C23
Gene No.	122006	Strand	+
Start	379	End	602
Name	OJ000320_20.0419.C23.o1.gs	Method	GENSCAN
Start	379	End	602
GI	none	Score	.5
Exons	379..602		

Seq. No.	58403	Seq. ID	OJ000320_20.0419.C23
Gene No.	122007	Strand	-
Start	1	End	1977
Name	OJ000320_20.0419.C23.o1.gp	Method	AAT/GAP

Start	1	End	1977
GI	uC-osflcyp158b11a1	Score	513
Exons	1..65, 1259..1370, 1513..1635, 1744..1771, 1944..1977		
GI Descrip.	'3819699/emb|CAA08758| 9.0e-62 (AJ009609) BnMAP4K alpha2 [Brassica napus]'		

Seq. No.	58403	Seq. ID	OJ000320_20.0419.C23
Gene No.	122007	Strand	-
Start	1	End	1977
Name	OJ000320_20.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1977
GI	3819699	Score	362
Exons	1..65, 1259..1370, 1513..1635, 1744..1771, 1929..1977		
GI Descrip.	(AJ009609) BnMAP4K alpha2 [Brassica napus]		

Seq. No.	58403	Seq. ID	OJ000320_20.0419.C23
Gene No.	122007	Strand	-
Start	1	End	1977
Name	OJ000320_20.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	16	End	1659
GI	none	Score	57
Exons	16..66, 1251..1355, 1260..1370, 1261..1356, 1510..1659, 1514..1636		

Seq. No.	58403	Seq. ID	OJ000320_20.0419.C23
Gene No.	122007	Strand	-
Start	1	End	1977
Name	OJ000320_20.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	1278	End	1659
GI	none	Score	81
Exons	1278..1370, 1279..1371, 1510..1659, 1511..1636, 1513..1653		

Seq. No.	58403	Seq. ID	OJ000320_20.0419.C23
Gene No.	122007	Strand	-
Start	1	End	1977
Name	OJ000320_20.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	1510	End	1778
GI	none	Score	168
Exons	1510..1638, 1511..1645, 1514..1636, 1516..1659, 1742..1771, 1743..1778		

Seq. No.	58403	Seq. ID	OJ000320_20.0419.C23
Gene No.	122007	Strand	-
Start	1	End	1977
Name	OJ000320_20.0419.C23.o2.gs	Method	GENSCAN
Start	1687	End	1771
GI	none	Score	.88
Exons	1687..1771		

Seq. No.	58404	Seq. ID	OJ000320_20.0419.C25
Gene No.	122008	Strand	-
Start	788	End	979
Name	OJ000320_20.0419.C25.o1.gs	Method	GENSCAN
Start	788	End	979
GI	none	Score	.68
Exons	788..979		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182
Name	OJ000320_20.0419.C26.o1.gp	Method	AAT/GAP
Start	323	End	1930
GI	23790_1.R1084	Score	1144
Exons	323..664, 1611..1862, 1901..1930		
GI Descrip.	'4336436/gb|AAD17805| 1.0e-31 (AF092432) protein phosphatase type 2C [Lotus japonicus]'		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182
Name	OJ000320_20.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	624	End	2624
GI	none	Score	70
Exons	624..665, 625..666, 626..667, 1608..1853, 1610..1858, 1610..1852, 2571..2624, 2571..2624		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182
Name	OJ000320_20.0419.C26.o1.gs	Method	GENSCAN
Start	626	End	2859
GI	none	Score	.95
Exons	626..664, 1611..1862, 2574..2859		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182
Name	OJ000320_20.0419.C26.o1.np	Method	AAT/NAP
Start	626	End	3182
GI	6997172	Score	504
Exons	626..689, 1624..1862, 2574..2910, 3117..3182		
GI Descrip.	(AC023839) putative protein phosphatase type 2C [Arabidopsis thaliana]		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182
Name	OJ000320_20.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	1609	End	1871
GI	none	Score	53
Exons	1609..1671, 1674..1871, 1686..1862		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182
Name	OJ000320_20.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	1635	End	2870
GI	none	Score	42
Exons	1635..1667, 1674..1871, 1674..1850, 1685..1852, 2571..2717, 2600..2698, 2670..2870, 2723..2869, 2763..2870		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182

Name	OJ000320_20.0419.C26.o2.ts	Method	TBLASTX:Soybean
Start	2571	End	2878
GI	none	Score	120
Exons	2571..2717, 2609..2716, 2670..2873, 2717..2878, 2717..2878		

Seq. No.	58405	Seq. ID	OJ000320_20.0419.C26
Gene No.	122009	Strand	+
Start	323	End	3182
Name	OJ000320_20.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	2636	End	2870
GI	none	Score	70
Exons	2636..2698, 2637..2702, 2670..2870, 2684..2869		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122010	Strand	+
Start	1	End	1454
Name	OJ000320_20.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	1454
GI	40004_2.R1084	Score	882
Exons	1..216, 1148..1454		
GI Descrip.	'4336436/gb|AAD17805| 1.0e-37 (AF092432) protein phosphatase type 2C [Lotus japonicus]'		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122010	Strand	+
Start	1	End	1454
Name	OJ000320_20.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1282
GI	7488280	Score	330
Exons	1..258, 1148..1282		
GI Descrip.	protein phosphatase 2C homolog F2O9.80 - Arabidopsis thaliana gi|2842482|emb|CAA16879.1| (AL021749) protein phosphatase 2C-like protein [Arabidopsis thaliana] gi|7269694|emb|CAB79642.1| (AL161572) protein phosphatase 2C-like protein [Arabidopsis thaliana]		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122010	Strand	+
Start	1	End	1454
Name	OJ000320_20.0419.C27.o1.gs	Method	GENSCAN
Start	62	End	1288
GI	none	Score	.77
Exons	62..216, 1148..1288		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122011	Strand	+
Start	3678	End	4979
Name	OJ000320_20.0419.C27.o3.gs	Method	GENSCAN
Start	3678	End	4979
GI	none	Score	.73
Exons	3678..4979		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122012	Strand	+
Start	6619	End	11961
Name	OJ000320_20.0419.C27.o4.gs	Method	GENSCAN
Start	6619	End	11957

GI	none	Score	.6
Exons	6619..6732, 6805..6933, 8143..8576, 8910..9075, 9332..9361, 9449..9594, 9755..9931, 10703..10827, 11902..11957		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122012	Strand	+
Start	6619	End	11961
Name	OJ000320_20.0419.C27.o3.np	Method	AAT/NAP
Start	10674	End	11961
GI	7507304	Score	58
Exons	10674..10840, 11669..11745, 11902..11961		
GI Descrip.	hypothetical protein T06E6.1 - Caenorhabditis elegans gi|3879561|emb|CAB03312.1| (Z81117) cDNA EST yk416a1.3 comes from this gene; cDNA EST yk466h2.3 comes from this gene; cDNA EST yk273e2.3 comes from this gene; cDNA EST yk475e12.3 comes from this gene; cDNA EST yk416a1.5 comes from this gene; cDNA EST yk466h2.5 comes from this ge>		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122012	Strand	+
Start	6619	End	11961
Name	OJ000320_20.0419.C27.o2.gp	Method	AAT/GAP
Start	11641	End	11957
GI	LIB3432-022-P1-K1-D7	Score	249
Exons	11641..11745, 11902..11957		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-158 Rice complete chloroplast genome'		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122013	Strand	-
Start	2017	End	3015
Name	OJ000320_20.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	55	End	1287
GI	none	Score	222
Exons	55..222, 60..233, 1145..1279, 1153..1287, 1157..1279		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122013	Strand	-
Start	2017	End	3015
Name	OJ000320_20.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	55	End	1380
GI	none	Score	253
Exons	55..222, 60..233, 1145..1288, 1145..1291, 1147..1326, 1330..1380		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122013	Strand	-
Start	2017	End	3015
Name	OJ000320_20.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	55	End	222
GI	none	Score	238
Exons	55..222, 60..221, 61..222		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122013	Strand	-
Start	2017	End	3015
Name	OJ000320_20.0419.C27.o2.gs	Method	GENSCAN
Start	2017	End	3015

GI	none	Score	.87
Exons	2017..2102, 2562..2782, 2930..3015		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122014	Strand	
Start	5936	End	6549
Name	OJ000320_20.0419.C27.o2.ts	Method	TBLASTX:Soybean
Start	5936	End	6549
GI	none	Score	80
Exons	5936..6094, 6067..6408, 6499..6549		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122014	Strand	
Start	5936	End	6549
Name	OJ000320_20.0419.C27.o4.tm	Method	TBLASTX:Maize
Start	6316	End	6519
GI	none	Score	182
Exons	6316..6519, 6418..6480		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122015	Strand	
Start	8928	End	9238
Name	OJ000320_20.0419.C27.o3.tm	Method	TBLASTX:Maize
Start	8928	End	9238
GI	none	Score	130
Exons	8928..9005, 8929..9006, 9121..9177, 9122..9238		

Seq. No.	58406	Seq. ID	OJ000320_20.0419.C27
Gene No.	122016	Strand	
Start	9882	End	11966
Name	OJ000320_20.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	9882	End	11966
GI	none	Score	71
Exons	9882..9932, 9884..9931, 10074..10157, 10076..10132, 10077..10139, 10255..10371, 10258..10362, 10665..10826, 10670..10828, 10673..10828, 10674..10829, 11654..11743, 11654..11746, 11655..11759, 11671..11751, 11900..11956, 11900..11965, 11901..11966		

Seq. No.	58407	Seq. ID	OJ000320_20.0419.C28
Gene No.	122017	Strand	+
Start	132	End	401
Name	OJ000320_20.0419.C28.o1.gs	Method	GENSCAN
Start	132	End	401
GI	none	Score	.96
Exons	132..401		

Seq. No.	58408	Seq. ID	OJ000320_20.0419.C29
Gene No.	122018	Strand	-
Start	204	End	1543
Name	OJ000320_20.0419.C29.o1.gs	Method	GENSCAN
Start	204	End	1485
GI	none	Score	.96
Exons	204..329, 362..846, 1305..1485		

Seq. No.	58408	Seq. ID	OJ000320_20.0419.C29
Gene No.	122018	Strand	-

Start	204	End	1543
Name	OJ000320_20.0419.C29.o1.np	Method	AAT/NAP
Start	356	End	1543
GI	6729037	Score	466
Exons	356..846, 1305..1543		
GI Descrip.	(AC009177) unknown protein [Arabidopsis thaliana]		

Seq. No.	58408	Seq. ID	OJ000320_20.0419.C29
Gene No.	122018	Strand	-
Start	204	End	1543
Name	OJ000320_20.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	443	End	853
GI	none	Score	117
Exons	443..547, 443..553, 548..853, 646..723, 711..848		

Seq. No.	58408	Seq. ID	OJ000320_20.0419.C29
Gene No.	122018	Strand	-
Start	204	End	1543
Name	OJ000320_20.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	593	End	1434
GI	none	Score	57
Exons	593..847, 701..805, 714..848, 1303..1434, 1304..1423		

Seq. No.	58408	Seq. ID	OJ000320_20.0419.C29
Gene No.	122018	Strand	-
Start	204	End	1543
Name	OJ000320_20.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	626	End	1354
GI	none	Score	83
Exons	626..847, 717..848, 1303..1353, 1304..1354		

Seq. No.	58409	Seq. ID	OJ000320_20.0419.C30
Gene No.	122019	Strand	+
Start	612	End	1098
Name	OJ000320_20.0419.C30.o1.gs	Method	GENSCAN
Start	612	End	1098
GI	none	Score	.72
Exons	612..662, 832..1098		

Seq. No.	58409	Seq. ID	OJ000320_20.0419.C30
Gene No.	122020	Strand	+
Start	1477	End	1854
Name	OJ000320_20.0419.C30.o2.gs	Method	GENSCAN
Start	1477	End	1854
GI	none	Score	.94
Exons	1477..1854		

Seq. No.	58409	Seq. ID	OJ000320_20.0419.C30
Gene No.	122021	Strand	-
Start	1	End	2688
Name	OJ000320_20.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	925
GI	6729037	Score	87
Exons	1..21, 797..925		
GI Descrip.	(AC009177) unknown protein [Arabidopsis thaliana]		

Seq. No.	58409	Seq. ID	OJ000320_20.0419.C30

Gene No.	122021	Strand	-
Start	1	End	2688
Name	OJ000320_20.0419.C30.o2.np	Method	AAT/NAP
Start	479	End	2688
GI	5852093	Score	54
Exons	479..551, 2209..2321, 2653..2688		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	58410	Seq. ID	OJ000320_20.0419.C31
Gene No.	122022	Strand	-
Start	114	End	1293
Name	OJ000320_20.0419.C31.o1.gs	Method	GENSCAN
Start	114	End	1293
GI	none	Score	.73
Exons	114..635, 1135..1293		

Seq. No.	58411	Seq. ID	OJ000320_20.0419.C32
Gene No.	122023	Strand	-
Start	17	End	648
Name	OJ000320_20.0419.C32.o1.gs	Method	GENSCAN
Start	17	End	648
GI	none	Score	.76
Exons	17..648		

Seq. No.	58411	Seq. ID	OJ000320_20.0419.C32
Gene No.	122023	Strand	-
Start	17	End	648
Name	OJ000320_20.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	166	End	416
GI	none	Score	147
Exons	166..345, 176..415, 201..416, 204..365		

Seq. No.	58411	Seq. ID	OJ000320_20.0419.C32
Gene No.	122023	Strand	-
Start	17	End	648
Name	OJ000320_20.0419.C32.o1.gp	Method	AAT/GAP
Start	288	End	631
GI	2310846	Score	618
Exons	288..631		

Seq. No.	58412	Seq. ID	OJ000330_20.0419.C1
Gene No.	122024	Strand	+
Start	1	End	1072
Name	OJ000330_20.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1053
GI	7208782	Score	156
Exons	1..248, 1025..1053		
GI Descrip.	(AJ276270) hypothetical protein [Cicer arietinum]		

Seq. No.	58412	Seq. ID	OJ000330_20.0419.C1
Gene No.	122024	Strand	+
Start	1	End	1072
Name	OJ000330_20.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	1	End	153
GI	none	Score	195
Exons	1..153, 1..150, 2..151, 9..152		

Seq. No.	58412	Seq. ID	OJ000330_20.0419.C1
Gene No.	122024	Strand	+
Start	1	End	1072
Name	OJ000330_20.0419.C1.o1.gs	Method	GENSCAN
Start	25	End	148
GI	none	Score	.98
Exons	25..148		

Seq. No.	58412	Seq. ID	OJ000330_20.0419.C1
Gene No.	122024	Strand	+
Start	1	End	1072
Name	OJ000330_20.0419.C1.o1.gp	Method	AAT/GAP
Start	99	End	1072
GI	none	Score	172
Exons	99..148, 1025..1072		

Seq. No.	58413	Seq. ID	OJ000330_20.0419.C5
Gene No.	122025	Strand	+
Start	1667	End	3657
Name	OJ000330_20.0419.C5.o1.gs	Method	GENSCAN
Start	1667	End	3657
GI	none	Score	.48
Exons	1667..1812, 2282..2342, 3097..3218, 3521..3657		

Seq. No.	58413	Seq. ID	OJ000330_20.0419.C5
Gene No.	122026	Strand	-
Start	4336	End	5057
Name	OJ000330_20.0419.C5.o2.gs	Method	GENSCAN
Start	4336	End	5057
GI	none	Score	.44
Exons	4336..4506, 4691..4896, 4931..5057		

Seq. No.	58414	Seq. ID	OJ000330_20.0419.C6
Gene No.	122027	Strand	+
Start	295	End	1326
Name	OJ000330_20.0419.C6.o1.gs	Method	GENSCAN
Start	295	End	1326
GI	none	Score	.74
Exons	295..405, 808..842, 1139..1326		

Seq. No.	58415	Seq. ID	OJ000330_20.0419.C8
Gene No.	122028	Strand	+
Start	101	End	1251
Name	OJ000330_20.0419.C8.o1.gs	Method	GENSCAN
Start	101	End	1251
GI	none	Score	.45
Exons	101..193, 238..387, 392..687, 1140..1251		

Seq. No.	58415	Seq. ID	OJ000330_20.0419.C8
Gene No.	122029	Strand	-
Start	174	End	1902
Name	OJ000330_20.0419.C8.o1.np	Method	AAT/NAP
Start	174	End	1902
GI	5802551	Score	82
Exons	174..392, 1872..1902		
GI Descrip.	(AF173369) alliinase [Allium tuberosum]		

Seq. No.	58416	Seq. ID	OJ000330_20.0419.C9
Gene No.	122030	Strand	+
Start	1	End	613
Name	OJ000330_20.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	223
GI	6907106	Score	166
Exons	1..223		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58416	Seq. ID	OJ000330_20.0419.C9
Gene No.	122030	Strand	+
Start	1	End	613
Name	OJ000330_20.0419.C9.o1.gs	Method	GENSCAN
Start	80	End	613
GI	none	Score	.58
Exons	80..153, 309..394, 483..613		

Seq. No.	58416	Seq. ID	OJ000330_20.0419.C9
Gene No.	122031	Strand	-
Start	2320	End	2645
Name	OJ000330_20.0419.C9.o2.gp	Method	AAT/GAP
Start	2023	End	2553
GI	22615_1.R1084	Score	966
Exons	2023..2553		
GI Descrip.	'399028/sp|Q01594|ALLN_ALLSA 3.0e-12 ALLIIN LYASE PRECURSOR (ALLIINASE) (CYSTEINE SULPHOXIDE LYASE) >gi_419808_pir__S29302 alliin lyase (EC 4.4.1.4) precursor - garlic >gi_16109_emb_CAA78268_ (Z12622) precursor alliinase [Allium sativum]'		

Seq. No.	58416	Seq. ID	OJ000330_20.0419.C9
Gene No.	122031	Strand	-
Start	2320	End	2645
Name	OJ000330_20.0419.C9.o2.np	Method	AAT/NAP
Start	2285	End	2645
GI	399028	Score	139
Exons	2285..2645		
GI Descrip.	ALLIIN LYASE PRECURSOR (ALLIINASE) (CYSTEINE SULPHOXIDE LYASE) gi|419808|pir||S29302 alliin lyase (EC 4.4.1.4) precursor - garlic gi|16109|emb|CAA78268.1| (Z12622) precursor alliinase [Allium sativum]		

Seq. No.	58416	Seq. ID	OJ000330_20.0419.C9
Gene No.	122031	Strand	-
Start	2320	End	2645
Name	OJ000330_20.0419.C9.o2.gs	Method	GENSCAN
Start	2320	End	2549
GI	none	Score	.96
Exons	2320..2549		

Seq. No.	58416	Seq. ID	OJ000330_20.0419.C9
Gene No.	122031	Strand	-
Start	2320	End	2645
Name	OJ000330_20.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	2377	End	2552
GI	none	Score	91

Exons	2377..2550, 2378..2482, 2380..2547, 2463..2552		
Seq. No.	58417	Seq. ID	OJ000330_20.0419.C10
Gene No.	122032	Strand	-
Start	1	End	2407
Name	OJ000330_20.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	976
GI	166341	Score	517
Exons	1..151, 257..549, 669..976		
GI Descrip.	(M98267) alliinase [Allium cepa] gi|1044969 (L48614) allinase [Allium cepa]		
Seq. No.	58417	Seq. ID	OJ000330_20.0419.C10
Gene No.	122032	Strand	-
Start	1	End	2407
Name	OJ000330_20.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	800
GI	none	Score	159
Exons	1..150, 2..151, 2..154, 221..376, 253..381, 349..447, 374..448, 395..454, 397..459, 726..800, 741..797		
Seq. No.	58417	Seq. ID	OJ000330_20.0419.C10
Gene No.	122032	Strand	-
Start	1	End	2407
Name	OJ000330_20.0419.C10.o1.gs	Method	GENSCAN
Start	40	End	2407
GI	none	Score	.94
Exons	40..151, 257..549, 669..969, 1607..1710, 2346..2407		
Seq. No.	58417	Seq. ID	OJ000330_20.0419.C10
Gene No.	122032	Strand	-
Start	1	End	2407
Name	OJ000330_20.0419.C10.o1.gp	Method	AAT/GAP
Start	72	End	864
GI	97415_1.R1084	Score	1048
Exons	72..151, 257..549, 669..864		
GI Descrip.	'166341 8.0e-37 (M98267) alliinase [Allium cepa] >gi_1044969 (L48614) allinase [Allium cepa]'		
Seq. No.	58417	Seq. ID	OJ000330_20.0419.C10
Gene No.	122032	Strand	-
Start	1	End	2407
Name	OJ000330_20.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	672	End	971
GI	none	Score	170
Exons	672..971, 673..969		
Seq. No.	58417	Seq. ID	OJ000330_20.0419.C10
Gene No.	122032	Strand	-
Start	1	End	2407
Name	OJ000330_20.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	774	End	969
GI	none	Score	103
Exons	774..968, 775..969		
Seq. No.	58418	Seq. ID	OJ000330_20.0419.C11
Gene No.	122033	Strand	-

Start	645	End	3708
Name	OJ000330_20.0419.C11.o1.gs	Method	GENSCAN
Start	645	End	3708
GI	none	Score	.7
Exons	645..655, 2197..2299, 3303..3708		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122034	Strand	+
Start	1975	End	2142
Name	OJ000330_20.0419.C12.o1.gp	Method	AAT/GAP
Start	1975	End	2142
GI	53818_1.R1084	Score	218
Exons	1975..2142		
GI Descrip.	'4587518/gb|AAD25749.1|AC007060_7 7.0e-20 (AC007060) Strong similarity to F19I3.8 gi_3033381 putative UDP-galactose-4-epimerase from Arabidopsis thaliana BAC gb_AC004238 and is a member of PF_01370 the NAD dependent epimerase/dehydratase family. EST gb_AA59'		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122035	Strand	+
Start	3265	End	7566
Name	OJ000330_20.0419.C12.o2.gs	Method	GENSCAN
Start	3265	End	7566
GI	none	Score	.98
Exons	3265..7566		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122035	Strand	+
Start	3265	End	7566
Name	OJ000330_20.0419.C12.o1.np	Method	AAT/NAP
Start	3376	End	7557
GI	7228446	Score	2956
Exons	3376..4018, 4049..5669, 5748..6602, 6690..7557		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122036	Strand	+
Start	9087	End	10932
Name	OJ000330_20.0419.C12.o3.gs	Method	GENSCAN
Start	9087	End	10932
GI	none	Score	.72
Exons	9087..9155, 10240..10932		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122036	Strand	+
Start	9087	End	10932
Name	OJ000330_20.0419.C12.o2.np	Method	AAT/NAP
Start	10479	End	10929
GI	5031281	Score	217
Exons	10479..10929		
GI Descrip.	(AF139499) unknown [Prunus armeniaca]		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-

Start	12203	End	14157
Name	OJ000330_20.0419.C12.o9.tm	Method	TBLASTX:Maize
Start	3256	End	3545
GI	none	Score	43
Exons	3256..3291, 3313..3543, 3333..3545		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o6.tw	Method	TBLASTX:Wheat
Start	3421	End	3834
GI	none	Score	235
Exons	3421..3777, 3439..3834		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o6.tc	Method	TBLASTX:Cress
Start	3430	End	3720
GI	none	Score	183
Exons	3430..3720, 3492..3644		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o5.tm	Method	TBLASTX:Maize
Start	3559	End	3950
GI	none	Score	200
Exons	3559..3762, 3564..3758, 3774..3833, 3775..3885, 3865..3948, 3882..3950		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o8.tm	Method	TBLASTX:Maize
Start	4365	End	4776
GI	none	Score	195
Exons	4365..4541, 4366..4584, 4645..4776		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o5.tw	Method	TBLASTX:Wheat
Start	4386	End	4842
GI	none	Score	176
Exons	4386..4589, 4387..4632, 4648..4755, 4756..4842		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o5.ts	Method	TBLASTX:Soybean
Start	4780	End	5109
GI	none	Score	209
Exons	4780..5109		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-

Start	12203	End	14157
Name	OJ000330_20.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	4930	End	5475
GI	none	Score	335
Exons	4930..5376, 5130..5369, 5380..5475		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o3.tm	Method	TBLASTX:Maize
Start	5122	End	5547
GI	none	Score	380
Exons	5122..5463, 5130..5453, 5476..5547		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	5149	End	5625
GI	none	Score	395
Exons	5149..5625, 5157..5450		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o3.tc	Method	TBLASTX:Cress
Start	5164	End	5613
GI	none	Score	283
Exons	5164..5613, 5166..5249, 5274..5447, 5476..5610		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o3.ts	Method	TBLASTX:Soybean
Start	6037	End	6525
GI	5509260	Score	352
Exons	6037..6525, 6102..6275, 6360..6497		
GI Descrip.	-		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o4.tm	Method	TBLASTX:Maize
Start	6055	End	6369
GI	none	Score	318
Exons	6055..6369, 6073..6354		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o4.tc	Method	TBLASTX:Cress
Start	6144	End	6408
GI	none	Score	225
Exons	6144..6275, 6145..6408		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-

Start	12203	End	14157
Name	OJ000330_20.0419.C12.o3.tw	Method	TBLASTX:Wheat
Start	6189	End	6744
GI	none	Score	252
Exons	6189..6275, 6190..6534, 6190..6537, 6520..6744		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o6.tm	Method	TBLASTX:Maize
Start	6571	End	6834
GI	none	Score	245
Exons	6571..6834, 6571..6813, 6573..6833		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	6838	End	7290
GI	none	Score	423
Exons	6838..7290, 6873..7223, 7090..7269		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	6876	End	7539
GI	none	Score	263
Exons	6876..7145, 6877..7170, 7174..7290, 7288..7539, 7330..7482, 7332..7487		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	6898	End	7548
GI	none	Score	147
Exons	6898..7059, 6927..7064, 7081..7548, 7359..7487		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o4.tw	Method	TBLASTX:Wheat
Start	7066	End	7509
GI	none	Score	151
Exons	7066..7293, 7315..7509, 7332..7508		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o5.tc	Method	TBLASTX:Cress
Start	10523	End	10935
GI	none	Score	96
Exons	10523..10612, 10674..10820, 10675..10821, 10823..10867, 10867..10935		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12

Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o7.tm	Method	TBLASTX:Maize
Start	10531	End	10920
GI	none	Score	105
Exons	10531..10599, 10532..10651, 10743..10820, 10744..10821, 10823..10867, 10842..10883, 10867..10920		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o4.ts	Method	TBLASTX:Soybean
Start	10532	End	10932
GI	none	Score	99
Exons	10532..10666, 10741..10821, 10746..10814, 10821..10862, 10823..10861, 10870..10932		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o3.gp	Method	AAT/GAP
Start	11896	End	12618
GI	4457_1.R1084	Score	1189
Exons	11896..12432, 12546..12618		
GI Descrip.	'4633652/gb|AAD26853.1|AF124405_1 5.0e-23 (AF124405) alliinase precursor [Allium cepa]'		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o3.np	Method	AAT/NAP
Start	12135	End	14157
GI	7108487	Score	720
Exons	12135..12432, 12546..12832, 12938..13233, 13330..13675, 14106..14157		
GI Descrip.	(AF126049) cysteine-sulphoxide lyase [Allium cepa]		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o4.gs	Method	GENSCAN
Start	12203	End	13644
GI	none	Score	.97
Exons	12203..12432, 12546..13233, 13330..13644		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	12260	End	12787
GI	none	Score	78
Exons	12260..12439, 12261..12350, 12263..12352, 12541..12777, 12547..12786, 12548..12787		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157

Name	OJ000330_20.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	12290	End	13461
GI	none	Score	117
Exons	12290..12433, 12290..12439, 12546..12638, 12547..12831, 12547..12831, 12548..12832, 12908..13057, 12934..13062, 13030..13128, 13055..13129, 13387..13461, 13402..13458		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o4.gp	Method	AAT/GAP
Start	12809	End	13476
GI	97415_1.R1084	Score	702
Exons	12809..12832, 12938..13233, 13330..13476		
GI Descrip.	'166341 8.0e-37 (M98267) alliinase [Allium cepa] >gi_1044969 (L48614) allinase [Allium cepa]'		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	13165	End	13632
GI	none	Score	157
Exons	13165..13233, 13327..13632, 13337..13630		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o6.ts	Method	TBLASTX:Soybean
Start	13435	End	13630
GI	none	Score	92
Exons	13435..13629, 13436..13630		

Seq. No.	58419	Seq. ID	OJ000330_20.0419.C12
Gene No.	122037	Strand	-
Start	12203	End	14157
Name	OJ000330_20.0419.C12.o5.gp	Method	AAT/GAP
Start	13501	End	13631
GI	LIB3431-058-P1-K1-D2	Score	230
Exons	13501..13631		
GI Descrip.	'15961/emb|CAA78267| 3.0e-22 (Z12621) precursor alliinase [Allium cepa]'		

Seq. No.	58420	Seq. ID	OJ000330_20.0419.C13
Gene No.	122038	Strand	-
Start	1	End	790
Name	OJ000330_20.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	790
GI	2190016	Score	135
Exons	1..52, 183..378, 718..790		
GI Descrip.	(AB004269) alliinase [Allium tuberosum]		

Seq. No.	58420	Seq. ID	OJ000330_20.0419.C13
Gene No.	122038	Strand	-
Start	1	End	790
Name	OJ000330_20.0419.C13.o1.gp	Method	AAT/GAP
Start	176	End	536

GI	LIB3431-058-P1-K1-D2	Score	643
Exons	176..536		
GI Descrip.	'15961/emb|CAA78267| 3.0e-22 (Z12621) precursor alliinase [Allium cepa]'		

Seq. No.	58420	Seq. ID	OJ000330_20.0419.C13
Gene No.	122038	Strand	-
Start	1	End	790
Name	OJ000330_20.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	184	End	481
GI	none	Score	152
Exons	184..282, 185..298, 283..372, 286..468, 406..480, 407..481		

Seq. No.	58421	Seq. ID	OJ000330_20.0419.C15
Gene No.	122039	Strand	+
Start	1	End	1952
Name	OJ000330_20.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1952
GI	4417279	Score	1478
Exons	1..68, 654..878, 924..1952		
GI Descrip.	(AC007019) unknown protein [Arabidopsis thaliana]		

Seq. No.	58421	Seq. ID	OJ000330_20.0419.C15
Gene No.	122039	Strand	+
Start	1	End	1952
Name	OJ000330_20.0419.C15.o1.gs	Method	GENSCAN
Start	274	End	1952
GI	none	Score	.48
Exons	274..325, 654..1952		

Seq. No.	58421	Seq. ID	OJ000330_20.0419.C15
Gene No.	122039	Strand	+
Start	1	End	1952
Name	OJ000330_20.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	654	End	878
GI	none	Score	79
Exons	654..716, 726..878		

Seq. No.	58421	Seq. ID	OJ000330_20.0419.C15
Gene No.	122039	Strand	+
Start	1	End	1952
Name	OJ000330_20.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	951	End	1170
GI	none	Score	304
Exons	951..1169, 953..1168, 963..1169, 1072..1170		

Seq. No.	58421	Seq. ID	OJ000330_20.0419.C15
Gene No.	122039	Strand	+
Start	1	End	1952
Name	OJ000330_20.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1274	End	1493
GI	none	Score	289
Exons	1274..1300, 1302..1493, 1303..1488		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122040	Strand	+
Start	62	End	1046

Name	OJ000330_20.0419.C16.o1.gp	Method	AAT/GAP
Start	62	End	566
GI	LIB3431-010-P1-K1-F10	Score	664
Exons	62..282, 405..566		
GI Descrip.	'3892708/emb|CAA22158.1| 6.0e-27 (AL033545) putative protein [Arabidopsis thaliana]'		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122040	Strand	+
Start	62	End	1046
Name	OJ000330_20.0419.C16.o1.gs	Method	GENSCAN
Start	133	End	1046
GI	none	Score	.51
Exons	133..282, 405..1046		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122040	Strand	+
Start	62	End	1046
Name	OJ000330_20.0419.C16.o1.np	Method	AAT/NAP
Start	133	End	1034
GI	7486603	Score	595
Exons	133..282, 405..1034		
GI Descrip.	hypothetical protein F7K2.110 - Arabidopsis thaliana gi|3892708|emb|CAA22158.1| (AL033545) putative protein [Arabidopsis thaliana] gi|7269099|emb|CAB79208.1| (AL161557) putative protein [Arabidopsis thaliana]		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122040	Strand	+
Start	62	End	1046
Name	OJ000330_20.0419.C16.o2.gp	Method	AAT/GAP
Start	584	End	1029
GI	LIB3433-026-P1-K1-F6	Score	844
Exons	584..1029		
GI Descrip.	'3892708/emb|CAA22158.1| 2.0e-26 (AL033545) putative protein [Arabidopsis thaliana]'		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122041	Strand	-
Start	1155	End	1411
Name	OJ000330_20.0419.C16.o3.gp	Method	AAT/GAP
Start	1155	End	1411
GI	LIB3431-010-P1-N1-F11	Score	490
Exons	1155..1411		
GI Descrip.	'287403/dbj|D10838|RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122042	Strand	-
Start	2227	End	5484
Name	OJ000330_20.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	111	End	830
GI	none	Score	77
Exons	111..212, 126..281, 130..288, 399..830, 404..805, 408..830		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122042	Strand	-

Start	2227	End	5484
Name	OJ000330_20.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	133	End	926
GI	none	Score	115
Exons	133..291, 405..668, 425..655, 729..926		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122042	Strand	-
Start	2227	End	5484
Name	OJ000330_20.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	189	End	671
GI	none	Score	101
Exons	189..284, 190..288, 405..671, 407..664, 489..671		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122042	Strand	-
Start	2227	End	5484
Name	OJ000330_20.0419.C16.o2.gs	Method	GENSCAN
Start	2227	End	5484
GI	none	Score	.64
Exons	2227..2900, 3132..3323, 4071..4300, 5424..5484		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122042	Strand	-
Start	2227	End	5484
Name	OJ000330_20.0419.C16.o2.np	Method	AAT/NAP
Start	2415	End	3022
GI	7486380	Score	228
Exons	2415..3022		
GI Descrip.	hypothetical protein F3L17.110 - Arabidopsis thaliana gi|5262765|emb|CAB45913.1| (AL080283) putative protein [Arabidopsis thaliana] gi|7270057|emb|CAB79872.1| (AL161579) putative protein [Arabidopsis thaliana]		

Seq. No.	58422	Seq. ID	OJ000330_20.0419.C16
Gene No.	122042	Strand	-
Start	2227	End	5484
Name	OJ000330_20.0419.C16.o3.np	Method	AAT/NAP
Start	3226	End	3340
GI	5777617	Score	79
Exons	3226..3340		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	58423	Seq. ID	OJ000330_20.0419.C17
Gene No.	122043	Strand	+
Start	1	End	3798
Name	OJ000330_20.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	3798
GI	3153821	Score	55
Exons	1..34, 3222..3343, 3562..3798		
GI Descrip.	(AF062655) plenty-of-prolines-101; POP101; SH3-philo-protein [Mus musculus]		

Seq. No.	58423	Seq. ID	OJ000330_20.0419.C17
Gene No.	122043	Strand	+
Start	1	End	3798
Name	OJ000330_20.0419.C17.o2.gs	Method	GENSCAN

Start	3036	End	3746
GI	none	Score	.55
Exons	3036..3337, 3466..3746		

Seq. No.	58423	Seq. ID	OJ000330_20.0419.C17
Gene No.	122044	Strand	-
Start	13	End	303
Name	OJ000330_20.0419.C17.o1.gs	Method	GENSCAN
Start	13	End	303
GI	none	Score	.68
Exons	13..146, 269..303		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122045	Strand	+
Start	1520	End	4467
Name	OJ000330_20.0419.C20.o1.np	Method	AAT/NAP
Start	1520	End	4361
GI	6539263	Score	831
Exons	1520..1545, 2712..3252, 3460..4361		
GI Descrip.	(AC011765) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122045	Strand	+
Start	1520	End	4467
Name	OJ000330_20.0419.C20.o2.gs	Method	GENSCAN
Start	2641	End	4467
GI	none	Score	.74
Exons	2641..4467		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122046	Strand	+
Start	4816	End	5283
Name	OJ000330_20.0419.C20.o1.gp	Method	AAT/GAP
Start	4812	End	5116
GI	none	Score	528
Exons	4812..5116		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122046	Strand	+
Start	4816	End	5283
Name	OJ000330_20.0419.C20.o3.gs	Method	GENSCAN
Start	4816	End	5208
GI	none	Score	1
Exons	4816..5208		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122046	Strand	+
Start	4816	End	5283
Name	OJ000330_20.0419.C20.o2.np	Method	AAT/NAP
Start	4829	End	5283
GI	7239505	Score	248
Exons	4829..5283		
GI Descrip.	(AC012654) EST gb|Z37689 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122047	Strand	-

Start	53	End	1871
Name	OJ000330_20.0419.C20.o1.gs	Method	GENSCAN
Start	53	End	1871
GI	none	Score	.69
Exons	53..895, 1201..1397, 1757..1871		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122048	Strand	
Start	2749	End	4455
Name	OJ000330_20.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	2749	End	4455
GI	none	Score	35
Exons	2749..2889, 2895..2975, 2905..3162, 2923..3174, 2949..3161, 2956..3027, 2982..3134, 3003..3140, 3004..3174, 3100..3267, 3103..3309, 3103..3351, 3135..3308, 3280..3378, 3388..3597, 3394..3633, 3397..3564, 3405..3596, 3487..3657, 3580..4455, 3583..3903, 3709..3816, 3859..4026		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122048	Strand	
Start	2749	End	4455
Name	OJ000330_20.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	2905	End	3990
GI	none	Score	252
Exons	2905..3354, 2908..3057, 2950..3186, 3108..3272, 3109..3279, 3283..3348, 3355..3486, 3385..3876, 3388..3564, 3402..3563, 3442..3867, 3549..3647, 3556..3636, 3652..3858, 3697..3882, 3699..3878, 3751..3951, 3871..3990, 3886..3990		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122048	Strand	
Start	2749	End	4455
Name	OJ000330_20.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	2911	End	4008
GI	none	Score	151
Exons	2911..3171, 3009..3170, 3109..3351, 3235..3399, 3282..3362, 3391..3624, 3541..4008, 3561..3950, 3858..3953		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122048	Strand	
Start	2749	End	4455
Name	OJ000330_20.0419.C20.o3.ts	Method	TBLASTX:Soybean
Start	3033	End	3888
GI	none	Score	97
Exons	3033..3176, 3034..3177, 3085..3207, 3127..3351, 3132..3347, 3397..3507, 3427..3810, 3729..3887, 3730..3888		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122048	Strand	
Start	2749	End	4455
Name	OJ000330_20.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	3889	End	4386
GI	none	Score	367
Exons	3889..4386, 4221..4385		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122048	Strand	

Start	2749	End	4455
Name	OJ000330_20.0419.C20.o3.tc	Method	TBLASTX:Cress
Start	3994	End	4314
GI	none	Score	213
Exons	3994..4314, 4005..4112		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122049	Strand	
Start	4926	End	5223
Name	OJ000330_20.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	4926	End	5223
GI	none	Score	61
Exons	4926..4994, 4935..4991, 4941..5210, 4957..4992, 4996..5223		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122049	Strand	
Start	4926	End	5223
Name	OJ000330_20.0419.C20.o2.tc	Method	TBLASTX:Cress
Start	4941	End	5217
GI	none	Score	163
Exons	4941..5096, 4957..5100, 5115..5204, 5116..5217		

Seq. No.	58424	Seq. ID	OJ000330_20.0419.C20
Gene No.	122049	Strand	
Start	4926	End	5223
Name	OJ000330_20.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	4956	End	5217
GI	none	Score	122
Exons	4956..5048, 4957..5052, 5055..5210, 5056..5217		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122050	Strand	+
Start	903	End	1201
Name	OJ000330_20.0419.C21.o1.gp	Method	AAT/GAP
Start	903	End	1201
GI	uC-osflcyp141h11b1	Score	574
Exons	903..1201		
GI Descrip.	'4151319 1.0e-34 (AF089084) putative auxin efflux carrier protein; AtPIN1 [Arabidopsis thaliana]'		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122051	Strand	+
Start	6374	End	8928
Name	OJ000330_20.0419.C21.o2.np	Method	AAT/NAP
Start	6374	End	8837
GI	7489524	Score	670
Exons	6374..6881, 7149..8046, 8140..8225, 8343..8500, 8596..8672, 8774..8837		
GI Descrip.	probable auxin transport protein - rice gi|3377509|gb|AAC39514.1| (AF056027) auxin transport protein REH1 [Oryza sativa]		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122051	Strand	+
Start	6374	End	8928
Name	OJ000330_20.0419.C21.o2.gp	Method	AAT/GAP
Start	8154	End	8928

GI	2311558	Score	841
Exons	8154..8225, 8343..8500, 8596..8672, 8774..8928		
GI Descrip.	4151319 1.0e-34 (AF089084) putative auxin efflux carrier protein; AtPIN1 [Arabidopsis thaliana]		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122052	Strand	+
Start	11719	End	13358
Name	OJ000330_20.0419.C21.o3.np	Method	AAT/NAP
Start	11719	End	13358
GI	5929932	Score	231
Exons	11719..11770, 11918..11985, 13198..13358		
GI Descrip.	(AF178952) voltage-dependent anion channel protein 2 [Zea mays]		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o4.ts	Method	TBLASTX:Soybean
Start	1660	End	1921
GI	none	Score	81
Exons	1660..1791, 1696..1776, 1700..1840, 1700..1921		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o3.tm	Method	TBLASTX:Maize
Start	1691	End	1990
GI	none	Score	339
Exons	1691..1990		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	1697	End	2234
GI	none	Score	125
Exons	1697..2233, 1700..1990, 2049..2234		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o1.np	Method	AAT/NAP
Start	1703	End	4843
GI	7485066	Score	1102
Exons	1703..3152, 4762..4843		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2244839|emb|CAB10261.1| (Z97337) hypothetical protein [Arabidopsis thaliana] gi|7268228|emb|CAB78524.1| (AL161540) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	1925	End	2461
GI	none	Score	147
Exons	1925..2461, 2085..2426		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	1991	End	3154
GI	none	Score	89
Exons	1991..2818, 2040..2240, 2319..2696, 2489..2800, 2622..2801, 2741..2935, 2759..3004, 2813..3004, 2846..3010, 2882..2998, 2948..3022, 3080..3154, 3081..3152		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	2394	End	3020
GI	none	Score	237
Exons	2394..2822, 2396..2875, 2759..3019, 2763..3020		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o3.tc	Method	TBLASTX:Cress
Start	2420	End	3022
GI	none	Score	64
Exons	2420..2542, 2421..2531, 2429..2650, 2528..2815, 2540..3019, 2541..2942, 2846..2977, 2855..3022		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122053	Strand	-
Start	1703	End	4843
Name	OJ000330_20.0419.C21.o5.ts	Method	TBLASTX:Soybean
Start	2474	End	3007
GI	none	Score	81
Exons	2474..2629, 2561..2710, 2568..2714, 2720..2932, 2771..2929, 2864..3007		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122054	Strand	
Start	6343	End	8831
Name	OJ000330_20.0419.C21.o4.tm	Method	TBLASTX:Maize
Start	6343	End	6714
GI	none	Score	328
Exons	6343..6714, 6344..6712		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122054	Strand	
Start	6343	End	8831
Name	OJ000330_20.0419.C21.o2.tc	Method	TBLASTX:Cress
Start	6370	End	8822
GI	none	Score	272
Exons	6370..6846, 6374..6622, 6668..6844, 7961..8050, 7969..8049, 8137..8226, 8138..8227, 8341..8496, 8342..8500, 8590..8673, 8592..8672, 8751..8822		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122054	Strand	

Start	6343	End	8831
Name	OJ000330_20.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	6377	End	6817
GI	none	Score	493
Exons	6377..6817, 6377..6616, 6379..6813		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122054	Strand	
Start	6343	End	8831
Name	OJ000330_20.0419.C21.o3.ts	Method	TBLASTX:Soybean
Start	7898	End	8831
GI	none	Score	98
Exons	7898..8050, 7969..8058, 8137..8226, 8138..8227, 8341..8496, 8342..8500, 8371..8502, 8585..8662, 8590..8670, 8592..8669, 8751..8831		

Seq. No.	58425	Seq. ID	OJ000330_20.0419.C21
Gene No.	122054	Strand	
Start	6343	End	8831
Name	OJ000330_20.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	7961	End	8831
GI	none	Score	94
Exons	7961..8050, 8138..8227, 8140..8226, 8341..8499, 8342..8500, 8590..8670, 8595..8669, 8775..8831		

Seq. No.	58426	Seq. ID	OJ000330_20.0419.C25
Gene No.	122055	Strand	-
Start	1089	End	1323
Name	OJ000330_20.0419.C25.o1.gs	Method	GENSCAN
Start	1089	End	1323
GI	none	Score	.65
Exons	1089..1323		

Seq. No.	58427	Seq. ID	OJ000330_20.0419.C26
Gene No.	122056	Strand	+
Start	271	End	495
Name	OJ000330_20.0419.C26.o1.gs	Method	GENSCAN
Start	271	End	495
GI	none	Score	.65
Exons	271..495		

Seq. No.	58427	Seq. ID	OJ000330_20.0419.C26
Gene No.	122057	Strand	+
Start	4142	End	5591
Name	OJ000330_20.0419.C26.o2.gs	Method	GENSCAN
Start	4142	End	5573
GI	none	Score	.68
Exons	4142..4195, 4293..4602, 5179..5331, 5446..5573		

Seq. No.	58427	Seq. ID	OJ000330_20.0419.C26
Gene No.	122057	Strand	+
Start	4142	End	5591
Name	OJ000330_20.0419.C26.o3.np	Method	AAT/NAP
Start	4142	End	5591
GI	7239503	Score	210
Exons	4142..4195, 4293..4599, 5188..5591		
GI Descrip.	(AC012654) F14O23.14 [Arabidopsis thaliana]		

Seq. No.	58427	Seq. ID	OJ000330_20.0419.C26
Gene No.	122058	Strand	-
Start	1	End	1073
Name	OJ000330_20.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1073
GI	6721547	Score	90
Exons	1..22, 979..1073		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	58427	Seq. ID	OJ000330_20.0419.C26
Gene No.	122059	Strand	
Start	4308	End	4574
Name	OJ000330_20.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	4308	End	4574
GI	none	Score	203
Exons	4308..4466, 4343..4435, 4518..4574		

Seq. No.	58428	Seq. ID	OJ000330_20.0419.C27
Gene No.	122060	Strand	+
Start	3207	End	3335
Name	OJ000330_20.0419.C27.o1.gp	Method	AAT/GAP
Start	3207	End	3335
GI	22827_1.R1084	Score	225
Exons	3207..3335		
GI Descrip.	'5882749/gb|AAD55302.1|AC008263_33 7.0e-27 (AC008263) Contains 2 PF_00612 IQ calmodulin-binding motif domains. [Arabidopsis thaliana]'		

Seq. No.	58429	Seq. ID	OJ000330_20.0419.C33
Gene No.	122061	Strand	+
Start	52	End	145
Name	OJ000330_20.0419.C33.o1.gs	Method	GENSCAN
Start	52	End	145
GI	none	Score	.95
Exons	52..145		

Seq. No.	58430	Seq. ID	OJ000330_20.0419.C37
Gene No.	122062	Strand	-
Start	1	End	2793
Name	OJ000330_20.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	2793
GI	1931639	Score	157
Exons	1..25, 1109..1500, 2718..2793		
GI Descrip.	(U95973) lysophospholipase isolog [Arabidopsis thaliana]		

Seq. No.	58430	Seq. ID	OJ000330_20.0419.C37
Gene No.	122062	Strand	-
Start	1	End	2793
Name	OJ000330_20.0419.C37.o2.np	Method	AAT/NAP
Start	1751	End	2068
GI	6539588	Score	214
Exons	1751..2068		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	58430	Seq. ID	OJ000330_20.0419.C37
Gene No.	122063	Strand	-

Start	3989	End	4509
Name	OJ000330_20.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	3977	End	4495
GI	none	Score	36
Exons	3977..4237, 4053..4076, 4131..4223, 4256..4495, 4299..4457		

Seq. No.	58430	Seq. ID	OJ000330_20.0419.C37
Gene No.	122063	Strand	-
Start	3989	End	4509
Name	OJ000330_20.0419.C37.o3.np	Method	AAT/NAP
Start	3989	End	4509
GI	7489803	Score	522
Exons	3989..4509		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	58430	Seq. ID	OJ000330_20.0419.C37
Gene No.	122063	Strand	-
Start	3989	End	4509
Name	OJ000330_20.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	4007	End	4508
GI	none	Score	116
Exons	4007..4498, 4022..4222, 4038..4508		

Seq. No.	58430	Seq. ID	OJ000330_20.0419.C37
Gene No.	122063	Strand	-
Start	3989	End	4509
Name	OJ000330_20.0419.C37.o1.tw	Method	TBLASTX:Wheat
Start	4052	End	4507
GI	none	Score	77
Exons	4052..4225, 4052..4228, 4247..4507		

Seq. No.	58431	Seq. ID	OJ000330_20.0419.C38
Gene No.	122064	Strand	+
Start	1	End	619
Name	OJ000330_20.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	440
GI	6682606	Score	176
Exons	1..22, 242..440		
GI Descrip.	(AC016163) putative inositol polyphosphate phosphatase, 5' partial [Arabidopsis thaliana]		

Seq. No.	58431	Seq. ID	OJ000330_20.0419.C38
Gene No.	122064	Strand	+
Start	1	End	619
Name	OJ000330_20.0419.C38.o1.gp	Method	AAT/GAP
Start	242	End	619
GI	72477_1.R1084	Score	682
Exons	242..619		
GI Descrip.	'4204695 2.0e-38 (AF117062) putative inositol polyphosphate 5-phosphatase At5P1 [Arabidopsis thaliana]'		

Seq. No.	58431	Seq. ID	OJ000330_20.0419.C38
Gene No.	122064	Strand	+
Start	1	End	619
Name	OJ000330_20.0419.C38.o1.gs	Method	GENSCAN

Start	242	End	464
GI	none	Score	.87
Exons	242..464		

Seq. No.	58431	Seq. ID	OJ000330_20.0419.C38
Gene No.	122065	Strand	-
Start	727	End	910
Name	OJ000330_20.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	230	End	419
GI	none	Score	81
Exons	230..406, 242..397, 243..419		

Seq. No.	58431	Seq. ID	OJ000330_20.0419.C38
Gene No.	122065	Strand	-
Start	727	End	910
Name	OJ000330_20.0419.C38.o2.gp	Method	AAT/GAP
Start	727	End	910
GI	none	Score	276
Exons	727..910		

Seq. No.	58432	Seq. ID	OJ000330_20.0419.C39
Gene No.	122066	Strand	-
Start	131	End	487
Name	OJ000330_20.0419.C39.o1.gs	Method	GENSCAN
Start	131	End	487
GI	none	Score	.71
Exons	131..487		

Seq. No.	58433	Seq. ID	OJ000330_20.0419.C43
Gene No.	122067	Strand	+
Start	1	End	5178
Name	OJ000330_20.0419.C43.o2.np	Method	AAT/NAP
Start	1	End	5178
GI	5852175	Score	128
Exons	1..65, 3034..3090, 3667..3762, 4391..4424, 5139..5178		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	58433	Seq. ID	OJ000330_20.0419.C43
Gene No.	122067	Strand	+
Start	1	End	5178
Name	OJ000330_20.0419.C43.o1.gs	Method	GENSCAN
Start	307	End	951
GI	none	Score	.68
Exons	307..446, 893..951		

Seq. No.	58433	Seq. ID	OJ000330_20.0419.C43
Gene No.	122068	Strand	-
Start	1	End	526
Name	OJ000330_20.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	526
GI	6539588	Score	204
Exons	1..28, 218..526		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	58433	Seq. ID	OJ000330_20.0419.C43
Gene No.	122069	Strand	-
Start	2166	End	2634

Name	OJ000330_20.0419.C43.o2.gs	Method	GENSCAN
Start	2166	End	2634
GI	none	Score	.87
Exons	2166..2358, 2465..2634		

Seq. No.	58434	Seq. ID	OJ000330_20.0419.C44
Gene No.	122070	Strand	+
Start	36	End	1847
Name	OJ000330_20.0419.C44.o1.gs	Method	GENSCAN
Start	36	End	1847
GI	none	Score	.55
Exons	36..287, 1740..1847		

Seq. No.	58435	Seq. ID	OJ000330_20.0419.C45
Gene No.	122071	Strand	+
Start	2050	End	2853
Name	OJ000330_20.0419.C45.o1.gp	Method	AAT/GAP
Start	2050	End	2534
GI	14600_1.R1084	Score	897
Exons	2050..2534		
GI Descrip.	'1438883 6.0e-11 (U43840) GmCK3p [Glycine max]'		

Seq. No.	58435	Seq. ID	OJ000330_20.0419.C45
Gene No.	122071	Strand	+
Start	2050	End	2853
Name	OJ000330_20.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	2281	End	2625
GI	none	Score	69
Exons	2281..2346, 2283..2342, 2304..2348, 2325..2486, 2329..2499, 2377..2499, 2521..2625, 2572..2625		

Seq. No.	58435	Seq. ID	OJ000330_20.0419.C45
Gene No.	122071	Strand	+
Start	2050	End	2853
Name	OJ000330_20.0419.C45.o1.gs	Method	GENSCAN
Start	2290	End	2712
GI	none	Score	.97
Exons	2290..2712		

Seq. No.	58435	Seq. ID	OJ000330_20.0419.C45
Gene No.	122071	Strand	+
Start	2050	End	2853
Name	OJ000330_20.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	2301	End	2712
GI	none	Score	162
Exons	2301..2471, 2302..2481, 2562..2708, 2572..2712		

Seq. No.	58435	Seq. ID	OJ000330_20.0419.C45
Gene No.	122071	Strand	+
Start	2050	End	2853
Name	OJ000330_20.0419.C45.o1.np	Method	AAT/NAP
Start	2311	End	2853
GI	6939222	Score	323
Exons	2311..2503, 2551..2716, 2834..2853		
GI Descrip.	(AC020579) putative choline kinase [Arabidopsis thaliana]		

Seq. No.	58435	Seq. ID	OJ000330_20.0419.C45

Gene No.	122071	Strand	+
Start	2050	End	2853
Name	OJ000330_20.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	2407	End	2712
GI	none	Score	97
Exons	2407..2481, 2590..2712		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122072	Strand	+
Start	1	End	2550
Name	OJ000330_20.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	1861
GI	6939222	Score	632
Exons	1..308, 390..585, 1092..1209, 1316..1364, 1546..1645, 1757..1861		
GI Descrip.	(AC020579) putative choline kinase [Arabidopsis thaliana]		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122072	Strand	+
Start	1	End	2550
Name	OJ000330_20.0419.C46.o1.gp	Method	AAT/GAP
Start	187	End	2296
GI	10475_1.R1084	Score	2052
Exons	187..308, 390..585, 1092..1209, 1316..1363, 1542..1645, 1757..2296		
GI Descrip.	'1438883 9.0e-93 (U43840) GmCK3p [Glycine max]'		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122072	Strand	+
Start	1	End	2550
Name	OJ000330_20.0419.C46.o1.gs	Method	GENSCAN
Start	187	End	2550
GI	none	Score	.71
Exons	187..308, 390..585, 1092..1209, 1316..1363, 1542..1645, 1757..1791, 1940..2088, 2402..2550		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122073	Strand	-
Start	3161	End	6695
Name	OJ000330_20.0419.C46.o2.np	Method	AAT/NAP
Start	3098	End	4066
GI	7340909	Score	132
Exons	3098..3124, 3277..3409, 3743..4066		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122073	Strand	-
Start	3161	End	6695
Name	OJ000330_20.0419.C46.o2.gs	Method	GENSCAN
Start	3161	End	6695
GI	none	Score	.62
Exons	3161..3844, 5570..5760, 5856..5971, 6546..6695		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122074	Strand	-
Start	6901	End	7023
Name	OJ000330_20.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	184	End	1340

GI	none	Score	203
Exons	184..309, 186..311, 385..585, 386..583, 387..587, 388..585, 1077..1196, 1091..1198, 1093..1197, 1100..1198, 1314..1340, 1315..1338		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122074	Strand	-
Start	6901	End	7023
Name	OJ000330_20.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	184	End	1849
GI	none	Score	168
Exons	184..309, 186..296, 387..587, 388..585, 1077..1220, 1085..1210, 1096..1221, 1321..1365, 1550..1645, 1748..1849		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122074	Strand	-
Start	6901	End	7023
Name	OJ000330_20.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	1080	End	1849
GI	none	Score	205
Exons	1080..1220, 1091..1210, 1553..1645, 1573..1647, 1574..1648, 1748..1849, 1755..1820		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122074	Strand	-
Start	6901	End	7023
Name	OJ000330_20.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	1153	End	1930
GI	none	Score	88
Exons	1153..1233, 1158..1208, 1159..1212, 1314..1361, 1314..1361, 1315..1362, 1547..1645, 1550..1651, 1552..1647, 1747..1854, 1748..1858, 1755..1853, 1792..1857, 1867..1893, 1874..1894, 1887..1928, 1889..1930		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122074	Strand	-
Start	6901	End	7023
Name	OJ000330_20.0419.C46.o2.tm	Method	TBLASTX:Maize
Start	1545	End	1944
GI	none	Score	161
Exons	1545..1646, 1547..1645, 1552..1647, 1573..1647, 1748..1840, 1755..1862, 1851..1892, 1903..1944		

Seq. No.	58436	Seq. ID	OJ000330_20.0419.C46
Gene No.	122074	Strand	-
Start	6901	End	7023
Name	OJ000330_20.0419.C46.o3.np	Method	AAT/NAP
Start	6901	End	7023
GI	7340920	Score	157
Exons	6901..7023		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	58437	Seq. ID	OJ000330_20.0419.C47
Gene No.	122075	Strand	+
Start	228	End	1055
Name	OJ000330_20.0419.C47.o1.gs	Method	GENSCAN
Start	228	End	458

GI	none	Score	.61
Exons	228..458		

Seq. No.	58437	Seq. ID	OJ000330_20.0419.C47
Gene No.	122075	Strand	+
Start	228	End	1055
Name	OJ000330_20.0419.C47.o1.np	Method	AAT/NAP
Start	302	End	1055
GI	6006359	Score	68
Exons	302..399, 1018..1055		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	58438	Seq. ID	OJ000330_20.0419.C48
Gene No.	122076	Strand	-
Start	21	End	572
Name	OJ000330_20.0419.C48.o1.gs	Method	GENSCAN
Start	21	End	572
GI	none	Score	.77
Exons	21..572		

Seq. No.	58439	Seq. ID	OJ000330_20.0419.C51
Gene No.	122077	Strand	+
Start	1	End	539
Name	OJ000330_20.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	539
GI	6358810	Score	296
Exons	1..539		
GI Descrip.	(AC010675) putative alpha-amylase [Arabidopsis thaliana]		

Seq. No.	58439	Seq. ID	OJ000330_20.0419.C51
Gene No.	122077	Strand	+
Start	1	End	539
Name	OJ000330_20.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	243	End	462
GI	none	Score	221
Exons	243..461, 243..461, 244..462		

Seq. No.	58439	Seq. ID	OJ000330_20.0419.C51
Gene No.	122077	Strand	+
Start	1	End	539
Name	OJ000330_20.0419.C51.o1.tc	Method	TBLASTX:Cress
Start	321	End	530
GI	none	Score	276
Exons	321..530, 325..528		

Seq. No.	58439	Seq. ID	OJ000330_20.0419.C51
Gene No.	122077	Strand	+
Start	1	End	539
Name	OJ000330_20.0419.C51.o1.ts	Method	TBLASTX:Soybean
Start	349	End	525
GI	none	Score	180
Exons	349..525, 351..518		

Seq. No.	58440	Seq. ID	OJ000320_21.0419.C4
Gene No.	122078	Strand	-
Start	1	End	701
Name	OJ000320_21.0419.C4.o1.np	Method	AAT/NAP

Start	1	End	701
GI	6721547	Score	85
Exons	1..50, 624..701		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	58441	Seq. ID	OJ000320_21.0419.C5
Gene No.	122079	Strand	-
Start	77	End	1689
Name	OJ000320_21.0419.C5.o1.gs	Method	GENSCAN
Start	77	End	1664
GI	none	Score	.89
Exons	77..154, 276..383, 495..689, 1279..1458, 1572..1664		

Seq. No.	58441	Seq. ID	OJ000320_21.0419.C5
Gene No.	122079	Strand	-
Start	77	End	1689
Name	OJ000320_21.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	315	End	1689
GI	none	Score	57
Exons	315..398, 317..379, 492..614, 493..633, 493..606, 549..632, 622..672, 630..671, 1279..1353, 1393..1437, 1563..1658, 1624..1689		

Seq. No.	58442	Seq. ID	OJ000320_21.0419.C6
Gene No.	122080	Strand	+
Start	621	End	2277
Name	OJ000320_21.0419.C6.o1.gs	Method	GENSCAN
Start	621	End	2277
GI	none	Score	.68
Exons	621..781, 932..1031, 1842..1897, 2055..2277		

Seq. No.	58442	Seq. ID	OJ000320_21.0419.C6
Gene No.	122081	Strand	-
Start	3718	End	3936
Name	OJ000320_21.0419.C6.o2.gs	Method	GENSCAN
Start	3718	End	3936
GI	none	Score	.62
Exons	3718..3936		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122082	Strand	+
Start	21	End	800
Name	OJ000320_21.0419.C7.o1.gs	Method	GENSCAN
Start	21	End	800
GI	none	Score	.55
Exons	21..101, 221..425, 694..800		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122083	Strand	+
Start	4117	End	8128
Name	OJ000320_21.0419.C7.o1.np	Method	AAT/NAP
Start	2878	End	8128
GI	7485814	Score	239
Exons	2878..2905, 4827..4914, 5496..5563, 5987..6229, 8104..8128		
GI Descrip.	hypothetical protein F19I3.6 - Arabidopsis thaliana gi|3033379|gb|AAC12823.1| (AC004238) putative WRKY-type DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122083	Strand	+
Start	4117	End	8128
Name	OJ000320_21.0419.C7.o3.gs	Method	GENSCAN
Start	4117	End	6443
GI	none	Score	.71
Exons	4117..4167, 4779..5250, 5332..5563, 5987..6443		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122084	Strand	-
Start	1300	End	2227
Name	OJ000320_21.0419.C7.o2.gs	Method	GENSCAN
Start	1300	End	2227
GI	none	Score	.62
Exons	1300..1431, 2192..2227		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	5495	End	6164
GI	none	Score	124
Exons	5495..5560, 5496..5564, 5969..6139, 5985..6164		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	5496	End	6146
GI	none	Score	128
Exons	5496..5564, 5498..5560, 5969..6142, 5985..6146		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o1.gp	Method	AAT/GAP
Start	9219	End	12118
GI	1068_1.R1084	Score	2135
Exons	9219..9575, 9695..9799, 9895..9977, 10537..10675, 10983..11048, 11131..11227, 11476..11614, 11837..11961, 12049..12118		
GI Descrip.	'5596472/emb|CAB51410.1| 1.0e-113 (AL096882) putative protein [Arabidopsis thaliana]'		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	9320	End	12119
GI	none	Score	42
Exons	9320..9373, 9324..9350, 9457..9576, 9462..9575, 9692..9805, 9693..9773, 9703..9801, 9894..9980, 9895..9963, 10515..10676, 10534..10698, 10535..10678, 10538..10723, 10539..10724, 10980..11048, 10983..11045, 10984..11049, 11125..11229, 11128..11229, 11132..11230, 11481..11558, 11493..11561, 11494..11616, 11826..11960, 11839..11961, 12030..12119		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	9468	End	11166
GI	none	Score	151
Exons	9468..9575, 9472..9573, 9692..9805, 9695..9784, 9895..9933, 9895..9933, 10574..10678, 10980..11048, 11128..11166		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o5.gs	Method	GENSCAN
Start	9468	End	11987
GI	none	Score	.9
Exons	9468..9575, 9695..9799, 9895..10004, 10537..10675, 10983..11048, 11131..11227, 11476..11614, 11837..11987		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o2.np	Method	AAT/NAP
Start	9471	End	12332
GI	6581058	Score	1328
Exons	9471..9575, 9695..9799, 9895..9977, 10537..10675, 10983..11048, 11131..11227, 11476..11614, 11837..11961, 12049..12153, 12186..12332		
GI Descrip.	(AF192467) Sgt1 [Oryza sativa]		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	9474	End	9966
GI	none	Score	73
Exons	9474..9575, 9474..9575, 9475..9576, 9692..9805, 9694..9810, 9895..9966, 9895..9966		

Seq. No.	58443	Seq. ID	OJ000320_21.0419.C7
Gene No.	122085	Strand	-
Start	9468	End	12332
Name	OJ000320_21.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	11838	End	12125
GI	none	Score	121
Exons	11838..11957, 11839..11958, 12030..12125		

Seq. No.	58444	Seq. ID	OJ000320_21.0419.C8
Gene No.	122086	Strand	-
Start	447	End	708
Name	OJ000320_21.0419.C8.o1.gp	Method	AAT/GAP
Start	447	End	702
GI	1068_1.R1084	Score	449
Exons	447..702		
GI Descrip.	'5596472/emb|CAB51410.1| 1.0e-113 (AL096882) putative protein [Arabidopsis thaliana]'		

Seq. No.	58444	Seq. ID	OJ000320_21.0419.C8

Gene No.	122086	Strand	-
Start	447	End	708
Name	OJ000320_21.0419.C8.o1.np	Method	AAT/NAP
Start	447	End	618
GI	6581058	Score	248
Exons	447..618		
GI Descrip.	(AF192467) Sgt1 [Oryza sativa]		

Seq. No.	58444	Seq. ID	OJ000320_21.0419.C8
Gene No.	122086	Strand	-
Start	447	End	708
Name	OJ000320_21.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	448	End	708
GI	none	Score	46
Exons	448..648, 649..708		

Seq. No.	58445	Seq. ID	OJ000320_21.0419.C9
Gene No.	122087	Strand	-
Start	596	End	704
Name	OJ000320_21.0419.C9.o1.gs	Method	GENSCAN
Start	596	End	704
GI	none	Score	.57
Exons	596..704		

Seq. No.	58446	Seq. ID	OJ000320_21.0419.C10
Gene No.	122088	Strand	+
Start	3410	End	5558
Name	OJ000320_21.0419.C10.o2.gs	Method	GENSCAN
Start	3410	End	5558
GI	none	Score	.71
Exons	3410..3561, 3601..3777, 3956..4070, 4165..4448, 4501..4606, 5499..5558		

Seq. No.	58446	Seq. ID	OJ000320_21.0419.C10
Gene No.	122089	Strand	-
Start	230	End	1396
Name	OJ000320_21.0419.C10.o1.gs	Method	GENSCAN
Start	230	End	1396
GI	none	Score	.73
Exons	230..334, 833..950, 1107..1396		

Seq. No.	58446	Seq. ID	OJ000320_21.0419.C10
Gene No.	122089	Strand	-
Start	230	End	1396
Name	OJ000320_21.0419.C10.o1.np	Method	AAT/NAP
Start	737	End	1312
GI	1170745	Score	430
Exons	737..982, 1107..1312		
GI Descrip.	LATE EMBRYOGENESIS ABUNDANT PROTEIN LEA14-A gi|167326 (M88321) Group 4 late embryogenesis-abundant protein [Gossypium hirsutum] gi|167328 (M88322) Group 4 late embryogenesis-abundant protein [Gossypium hirsutum]		

Seq. No.	58446	Seq. ID	OJ000320_21.0419.C10
Gene No.	122090	Strand	-
Start	6814	End	7090
Name	OJ000320_21.0419.C10.o1.tm	Method	TBLASTX:Maize

Start	732	End	1303
GI	none	Score	85
Exons	732..815, 736..819, 740..931, 785..922, 931..978, 932..985, 932..985, 942..989, 1101..1292, 1106..1291, 1235..1303		

Seq. No.	58446	Seq. ID	OJ000320_21.0419.C10
Gene No.	122090	Strand	-
Start	6814	End	7090
Name	OJ000320_21.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	732	End	1291
GI	none	Score	75
Exons	732..821, 740..931, 785..928, 934..984, 935..994, 1106..1291, 1107..1280		

Seq. No.	58446	Seq. ID	OJ000320_21.0419.C10
Gene No.	122090	Strand	-
Start	6814	End	7090
Name	OJ000320_21.0419.C10.o3.gs	Method	GENSCAN
Start	6814	End	7090
GI	none	Score	.62
Exons	6814..7090		

Seq. No.	58447	Seq. ID	OJ000320_21.0419.C12
Gene No.	122091	Strand	+
Start	104	End	2323
Name	OJ000320_21.0419.C12.o1.np	Method	AAT/NAP
Start	104	End	2323
GI	4895183	Score	447
Exons	104..130, 1018..1206, 2138..2323		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58447	Seq. ID	OJ000320_21.0419.C12
Gene No.	122091	Strand	+
Start	104	End	2323
Name	OJ000320_21.0419.C12.o1.gs	Method	GENSCAN
Start	364	End	1769
GI	none	Score	.62
Exons	364..439, 1044..1292, 1539..1567, 1692..1727, 1762..1769		

Seq. No.	58447	Seq. ID	OJ000320_21.0419.C12
Gene No.	122092	Strand	-
Start	2078	End	2323
Name	OJ000320_21.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	906	End	2323
GI	none	Score	248
Exons	906..1223, 907..990, 911..1222, 912..1229, 1063..1224, 1225..1293, 1228..1296, 1229..1315, 2110..2322, 2117..2323		

Seq. No.	58447	Seq. ID	OJ000320_21.0419.C12
Gene No.	122092	Strand	-
Start	2078	End	2323
Name	OJ000320_21.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	1014	End	2253
GI	none	Score	342
Exons	1014..1295, 1033..1296, 1066..1293, 2116..2253, 2117..2251		

Seq. No.	58447	Seq. ID	OJ000320_21.0419.C12

Gene No.	122092	Strand	-
Start	2078	End	2323
Name	OJ000320_21.0419.C12.o2.gs	Method	GENSCAN
Start	2078	End	2290
GI	none	Score	.86
Exons	2078..2290		

Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122093	Strand	+
Start	1	End	1103
Name	OJ000320_21.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1103
GI	4895183	Score	889
Exons	1..236, 274..328, 427..682, 771..1103		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122093	Strand	+
Start	1	End	1103
Name	OJ000320_21.0419.C13.o1.gs	Method	GENSCAN
Start	58	End	1041
GI	none	Score	.72
Exons	58..328, 427..682, 771..1041		

Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122093	Strand	+
Start	1	End	1103
Name	OJ000320_21.0419.C13.o1.gp	Method	AAT/GAP
Start	127	End	695
GI	uC-osroM202017d01b1	Score	845
Exons	127..328, 427..695		
GI Descrip.	'4895183/gb|AAD32770.1|AC007661_7 8.0e-40 (AC007661) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122094	Strand	-
Start	765	End	1053
Name	OJ000320_21.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1	End	670
GI	none	Score	492
Exons	1..339, 3..329, 427..501, 431..499, 500..670, 501..668, 511..669		

Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122094	Strand	-
Start	765	End	1053
Name	OJ000320_21.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1041
GI	none	Score	301
Exons	1..219, 3..227, 12..227, 283..312, 519..689, 519..701, 527..703, 772..924, 774..926, 943..1041, 951..1031		

Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122094	Strand	-
Start	765	End	1053
Name	OJ000320_21.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	504	End	902
GI	none	Score	297

Exons	504..689, 510..674, 533..703, 772..900, 774..902		
Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122094	Strand	-
Start	765	End	1053
Name	OJ000320_21.0419.C13.o2.gp	Method	AAT/GAP
Start	765	End	1053
GI	10321_1.R1084	Score	478
Exons	765..1053		
GI Descrip.	'4895183/gb|AAD32770.1|AC007661_7 1.0e-52 (AC007661) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	58448	Seq. ID	OJ000320_21.0419.C13
Gene No.	122094	Strand	-
Start	765	End	1053
Name	OJ000320_21.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	768	End	1053
GI	none	Score	322
Exons	768..1043, 769..1053		
Seq. No.	58449	Seq. ID	OJ000320_21.0419.C14
Gene No.	122095	Strand	+
Start	133	End	1409
Name	OJ000320_21.0419.C14.o1.gs	Method	GENSCAN
Start	133	End	1374
GI	none	Score	.85
Exons	133..306, 583..752, 850..1374		
Seq. No.	58449	Seq. ID	OJ000320_21.0419.C14
Gene No.	122095	Strand	+
Start	133	End	1409
Name	OJ000320_21.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	669	End	1091
GI	none	Score	89
Exons	669..752, 674..751, 859..1089, 861..1091		
Seq. No.	58449	Seq. ID	OJ000320_21.0419.C14
Gene No.	122095	Strand	+
Start	133	End	1409
Name	OJ000320_21.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	692	End	1155
GI	none	Score	58
Exons	692..754, 693..752, 857..904, 858..1154, 859..1155		
Seq. No.	58449	Seq. ID	OJ000320_21.0419.C14
Gene No.	122095	Strand	+
Start	133	End	1409
Name	OJ000320_21.0419.C14.o1.np	Method	AAT/NAP
Start	697	End	1409
GI	7385051	Score	652
Exons	697..752, 858..1409		
GI Descrip.	(AF216385) beta-adaptin-like protein A [Arabidopsis thaliana]		
Seq. No.	58449	Seq. ID	OJ000320_21.0419.C14
Gene No.	122095	Strand	+
Start	133	End	1409
Name	OJ000320_21.0419.C14.o1.tc	Method	TBLASTX:Cress

Start	732	End	1110
GI	none	Score	260
Exons	732..752, 858..1052, 859..1053, 1078..1110		

Seq. No.	58449	Seq. ID	OJ000320_21.0419.C14
Gene No.	122095	Strand	+
Start	133	End	1409
Name	OJ000320_21.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	858	End	1155
GI	none	Score	43
Exons	858..890, 859..891, 876..1115, 892..1116, 1114..1155		

Seq. No.	58450	Seq. ID	OJ000320_21.0419.C16
Gene No.	122096	Strand	+
Start	1	End	1958
Name	OJ000320_21.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1958
GI	7385051	Score	915
Exons	1..27, 313..433, 905..1103, 1400..1628, 1750..1958		
GI Descrip.	(AF216385) beta-adaptin-like protein A [Arabidopsis thaliana]		

Seq. No.	58450	Seq. ID	OJ000320_21.0419.C16
Gene No.	122096	Strand	+
Start	1	End	1958
Name	OJ000320_21.0419.C16.o3.ts	Method	TBLASTX:Soybean
Start	282	End	434
GI	none	Score	177
Exons	282..434, 300..431		

Seq. No.	58450	Seq. ID	OJ000320_21.0419.C16
Gene No.	122096	Strand	+
Start	1	End	1958
Name	OJ000320_21.0419.C16.o1.gs	Method	GENSCAN
Start	309	End	1916
GI	none	Score	.92
Exons	309..433, 905..1103, 1400..1628, 1750..1916		

Seq. No.	58450	Seq. ID	OJ000320_21.0419.C16
Gene No.	122096	Strand	+
Start	1	End	1958
Name	OJ000320_21.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	935	End	1432
GI	none	Score	251
Exons	935..1114, 936..1106, 946..1119, 1400..1432		

Seq. No.	58450	Seq. ID	OJ000320_21.0419.C16
Gene No.	122096	Strand	+
Start	1	End	1958
Name	OJ000320_21.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	995	End	1919
GI	none	Score	179
Exons	995..1114, 999..1106, 1397..1627, 1398..1565, 1399..1638, 1400..1633, 1748..1918, 1749..1919		

Seq. No.	58450	Seq. ID	OJ000320_21.0419.C16
Gene No.	122096	Strand	+
Start	1	End	1958

Name	OJ000320_21.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1432	End	1919
GI	none	Score	260
Exons	1432..1638, 1454..1633, 1748..1918, 1749..1919		

Seq. No.	58451	Seq. ID	OJ000320_21.0419.C18
Gene No.	122097	Strand	+
Start	1	End	878
Name	OJ000320_21.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	878
GI	2695866	Score	493
Exons	1..152, 246..548, 664..878		
GI Descrip.	(Y15894) kinesin-like protein 2beta [Mus musculus]		

Seq. No.	58451	Seq. ID	OJ000320_21.0419.C18
Gene No.	122097	Strand	+
Start	1	End	878
Name	OJ000320_21.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	1	End	402
GI	none	Score	72
Exons	1..60, 54..152, 55..153, 90..158, 232..288, 248..292, 249..284, 277..402		

Seq. No.	58451	Seq. ID	OJ000320_21.0419.C18
Gene No.	122097	Strand	+
Start	1	End	878
Name	OJ000320_21.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	877
GI	none	Score	246
Exons	1..150, 1..150, 9..152, 219..548, 232..552, 648..875, 661..876, 662..877		

Seq. No.	58451	Seq. ID	OJ000320_21.0419.C18
Gene No.	122097	Strand	+
Start	1	End	878
Name	OJ000320_21.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	1	End	832
GI	none	Score	245
Exons	1..153, 1..147, 9..155, 225..341, 247..552, 247..549, 644..826, 661..831, 662..832		

Seq. No.	58451	Seq. ID	OJ000320_21.0419.C18
Gene No.	122097	Strand	+
Start	1	End	878
Name	OJ000320_21.0419.C18.o1.gs	Method	GENSCAN
Start	13	End	651
GI	none	Score	.72
Exons	13..152, 246..548, 585..651		

Seq. No.	58451	Seq. ID	OJ000320_21.0419.C18
Gene No.	122097	Strand	+
Start	1	End	878
Name	OJ000320_21.0419.C18.o1.gp	Method	AAT/GAP
Start	306	End	865
GI	LIB3434-038-P1-K1-D12	Score	845
Exons	306..548, 664..865		
GI Descrip.	'2978452/gb|AAC24615.1| 9.0e-47 (AE001274) MCAK; L549.3		

[Leishmania major]'

Seq. No.	58452	Seq. ID	OJ000320_21.0419.C22
Gene No.	122098	Strand	+
Start	333	End	425
Name	OJ000320_21.0419.C22.o1.gs	Method	GENSCAN
Start	333	End	425
GI	none	Score	.79
Exons	333..425		

Seq. No.	58452	Seq. ID	OJ000320_21.0419.C22
Gene No.	122099	Strand	-
Start	4573	End	6964
Name	OJ000320_21.0419.C22.o2.gs	Method	GENSCAN
Start	4573	End	6794
GI	none	Score	.59
Exons	4573..5038, 5202..5345, 6340..6794		

Seq. No.	58452	Seq. ID	OJ000320_21.0419.C22
Gene No.	122099	Strand	-
Start	4573	End	6964
Name	OJ000320_21.0419.C22.o1.np	Method	AAT/NAP
Start	4576	End	6964
GI	7484934	Score	357
Exons	4576..4722, 4808..5070, 5202..5345, 6266..6459, 6918..6964		
GI Descrip.	DNA-binding protein homolog T9A21.10 - Arabidopsis thaliana gi|4038481|emb|CAA16788.1| (AL021713) DNA binding-like protein [Arabidopsis thaliana] gi|7268610|emb|CAB78819.1| (AL161548) DNA binding-like protein [Arabidopsis thaliana]		

Seq. No.	58452	Seq. ID	OJ000320_21.0419.C22
Gene No.	122099	Strand	-
Start	4573	End	6964
Name	OJ000320_21.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	4909	End	5047
GI	none	Score	149
Exons	4909..5043, 4913..5047, 4940..5047		

Seq. No.	58452	Seq. ID	OJ000320_21.0419.C22
Gene No.	122099	Strand	-
Start	4573	End	6964
Name	OJ000320_21.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	5186	End	5344
GI	none	Score	226
Exons	5186..5344		

Seq. No.	58452	Seq. ID	OJ000320_21.0419.C22
Gene No.	122099	Strand	-
Start	4573	End	6964
Name	OJ000320_21.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	6415	End	6835
GI	none	Score	54
Exons	6415..6480, 6420..6461, 6462..6554, 6465..6551, 6549..6590, 6550..6591, 6657..6725, 6732..6797, 6785..6835		

Seq. No.	58453	Seq. ID	OJ000320_21.0419.C23
Gene No.	122100	Strand	+

Start	1861	End	4213
Name	OJ000320_21.0419.C23.o1.gs	Method	GENSCAN
Start	1861	End	3965
GI	none	Score	.56
Exons	1861..1948, 2269..2448, 2606..2693, 2916..3054, 3299..3417, 3563..3965		

Seq. No.	58453	Seq. ID	OJ000320_21.0419.C23
Gene No.	122100	Strand	+
Start	1861	End	4213
Name	OJ000320_21.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	3588	End	3971
GI	none	Score	42
Exons	3588..3668, 3713..3775, 3714..3782, 3821..3967, 3833..3877, 3870..3971		

Seq. No.	58453	Seq. ID	OJ000320_21.0419.C23
Gene No.	122100	Strand	+
Start	1861	End	4213
Name	OJ000320_21.0419.C23.o1.gp	Method	AAT/GAP
Start	3652	End	4213
GI	32630_1.R1084	Score	1113
Exons	3652..4213		
GI Descrip.	'4455359/emb|CAB36769.1| 5.0e-29 (AL035524) putative protein [Arabidopsis thaliana]'		

Seq. No.	58453	Seq. ID	OJ000320_21.0419.C23
Gene No.	122100	Strand	+
Start	1861	End	4213
Name	OJ000320_21.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	3713	End	4002
GI	none	Score	151
Exons	3713..3919, 3714..3935, 3897..3977, 3923..3967, 3973..4002		

Seq. No.	58453	Seq. ID	OJ000320_21.0419.C23
Gene No.	122100	Strand	+
Start	1861	End	4213
Name	OJ000320_21.0419.C23.o1.np	Method	AAT/NAP
Start	3744	End	3962
GI	7489281	Score	226
Exons	3744..3962		
GI Descrip.	translocase 7K chain TOM7, mitochondrial - potato gi|3319774|emb|CAA76125.1| (Y16228) TOM7 protein [Solanum tuberosum]		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122101	Strand	+
Start	147	End	209
Name	OJ000320_21.0419.C24.o1.gs	Method	GENSCAN
Start	147	End	209
GI	none	Score	.87
Exons	147..209		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122102	Strand	+
Start	506	End	973
Name	OJ000320_21.0419.C24.o1.gp	Method	AAT/GAP

Start	506	End	973
GI	none	Score	906
Exons	506..973		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122103	Strand	-
Start	882	End	2654
Name	OJ000320_21.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	849	End	1142
GI	none	Score	354
Exons	849..1142, 850..1137		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122103	Strand	-
Start	882	End	2654
Name	OJ000320_21.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	878	End	1094
GI	none	Score	71
Exons	878..1009, 883..1086, 888..1094		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122103	Strand	-
Start	882	End	2654
Name	OJ000320_21.0419.C24.o2.gs	Method	GENSCAN
Start	882	End	2380
GI	none	Score	.97
Exons	882..1172, 1564..2022, 2236..2380		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122103	Strand	-
Start	882	End	2654
Name	OJ000320_21.0419.C24.o1.np	Method	AAT/NAP
Start	885	End	2603
GI	7385051	Score	937
Exons	885..1172, 1564..2022, 2236..2412, 2493..2603		
GI Descrip.	(AF216385) beta-adaptin-like protein A [Arabidopsis thaliana]		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122103	Strand	-
Start	882	End	2654
Name	OJ000320_21.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	1618	End	2654
GI	none	Score	59
Exons	1618..1644, 1621..1656, 1669..1731, 1679..1732, 1737..1931, 1738..1932, 1739..1930, 1858..1941, 1939..2025, 1940..2023, 1951..2025, 1961..2053, 2213..2413, 2221..2415, 2233..2424, 2491..2604, 2493..2606, 2500..2604, 2541..2654		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122103	Strand	-
Start	882	End	2654
Name	OJ000320_21.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	1831	End	2618
GI	none	Score	83
Exons	1831..2025, 1858..2025, 2221..2415, 2236..2424, 2259..2432, 2279..2434, 2505..2618, 2512..2604, 2553..2618		

Seq. No.	58454	Seq. ID	OJ000320_21.0419.C24
Gene No.	122103	Strand	-
Start	882	End	2654
Name	OJ000320_21.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	1863	End	2531
GI	none	Score	145
Exons	1863..2027, 1864..2025, 2221..2415, 2236..2424, 2364..2423, 2493..2531		

Seq. No.	58455	Seq. ID	OJ000320_21.0419.C28
Gene No.	122104	Strand	+
Start	4346	End	4702
Name	OJ000320_21.0419.C28.o1.gp	Method	AAT/GAP
Start	4346	End	4702
GI	5003541	Score	668
Exons	4346..4702		

Seq. No.	58455	Seq. ID	OJ000320_21.0419.C28
Gene No.	122105	Strand	-
Start	1529	End	6485
Name	OJ000320_21.0419.C28.o1.gs	Method	GENSCAN
Start	1529	End	3850
GI	none	Score	.86
Exons	1529..1621, 1989..2029, 2779..2943, 3064..3850		

Seq. No.	58455	Seq. ID	OJ000320_21.0419.C28
Gene No.	122105	Strand	-
Start	1529	End	6485
Name	OJ000320_21.0419.C28.o1.np	Method	AAT/NAP
Start	3002	End	5556
GI	6692100	Score	69
Exons	3002..3191, 3263..3430, 5531..5556		
GI Descrip.	(AC007764) F22C12.16 [Arabidopsis thaliana]		

Seq. No.	58455	Seq. ID	OJ000320_21.0419.C28
Gene No.	122105	Strand	-
Start	1529	End	6485
Name	OJ000320_21.0419.C28.o2.gs	Method	GENSCAN
Start	4032	End	6485
GI	none	Score	.95
Exons	4032..4368, 4794..4853, 5406..5502, 5699..5891, 6400..6485		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122106	Strand	+
Start	63	End	391
Name	OJ000320_21.0419.C29.o1.gs	Method	GENSCAN
Start	63	End	391
GI	none	Score	.82
Exons	63..178, 269..391		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122107	Strand	+
Start	2351	End	4904
Name	OJ000320_21.0419.C29.o2.gs	Method	GENSCAN
Start	2351	End	4904
GI	none	Score	.43
Exons	2351..2617, 2821..3438, 3554..4084, 4683..4904		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122107	Strand	+
Start	2351	End	4904
Name	OJ000320_21.0419.C29.o1.np	Method	AAT/NAP
Start	2992	End	4901
GI	3747093	Score	1037
Exons	2992..3438, 3554..4086, 4685..4901		
GI Descrip.	(AF095577) endopolygalacturonase [Prunus persica]		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	3070	End	4063
GI	none	Score	95
Exons	3070..3291, 3162..3233, 3361..3411, 3553..3831, 3554..3973, 3919..3951, 3986..4063		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	3418	End	4060
GI	none	Score	35
Exons	3418..3486, 3578..3949, 3580..3834, 3989..4060		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	3554	End	4051
GI	none	Score	335
Exons	3554..3949, 3589..3708, 3760..3831, 3977..4051		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o2.gp	Method	AAT/GAP
Start	5238	End	5775
GI	15790_1.R1084	Score	808
Exons	5238..5576, 5686..5775		
GI Descrip.	'4455359/emb|CAB36769.1| 9.0e-42 (AL035524) putative protein [Arabidopsis thaliana]'		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o2.tc	Method	TBLASTX:Cress
Start	5433	End	5731
GI	none	Score	62
Exons	5433..5555, 5463..5579, 5476..5586, 5680..5730, 5696..5731		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o1.tw	Method	TBLASTX:Wheat

Start	5457	End	5730
GI	none	Score	125
Exons	5457..5582, 5463..5588, 5464..5601, 5680..5730		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	5463	End	5745
GI	none	Score	109
Exons	5463..5579, 5476..5577, 5680..5745, 5691..5717		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o3.gs	Method	GENSCAN
Start	5463	End	5715
GI	none	Score	1
Exons	5463..5576, 5686..5715		

Seq. No.	58456	Seq. ID	OJ000320_21.0419.C29
Gene No.	122108	Strand	-
Start	5238	End	5775
Name	OJ000320_21.0419.C29.o2.np	Method	AAT/NAP
Start	5466	End	5775
GI	7487959	Score	178
Exons	5466..5576, 5686..5775		
GI Descrip.	MSP1 protein homolog T13J8.110 - Arabidopsis thaliana gi|4455359|emb|CAB36769.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269654|emb|CAB79602.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122109	Strand	+
Start	3743	End	8553
Name	OJ000320_21.0419.C30.o2.np	Method	AAT/NAP
Start	3743	End	8553
GI	5734621	Score	133
Exons	3743..3797, 5812..6016, 8498..8553		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122110	Strand	-
Start	1	End	7950
Name	OJ000320_21.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	3112
GI	7487959	Score	789
Exons	1..202, 288..365, 443..942, 1020..1057, 2309..2642, 2910..3112		
GI Descrip.	MSP1 protein homolog T13J8.110 - Arabidopsis thaliana gi|4455359|emb|CAB36769.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269654|emb|CAB79602.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122110	Strand	-

Start	1	End	7950
Name	OJ000320_21.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	1	End	535
GI	none	Score	129
Exons	1..189, 1..189, 3..212, 8..193, 260..316, 318..368, 320..370, 436..534, 443..535		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122110	Strand	-
Start	1	End	7950
Name	OJ000320_21.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	1	End	744
GI	none	Score	78
Exons	1..42, 22..192, 37..150, 98..193, 562..744		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122110	Strand	-
Start	1	End	7950
Name	OJ000320_21.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	1	End	630
GI	none	Score	179
Exons	1..195, 1..189, 3..194, 329..367, 333..368, 436..561, 443..574, 574..630		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122110	Strand	-
Start	1	End	7950
Name	OJ000320_21.0419.C30.o1.gs	Method	GENSCAN
Start	33	End	7950
GI	none	Score	.54
Exons	33..192, 284..365, 443..942, 1317..1411, 1689..1788, 2208..2243, 2335..2423, 2521..2642, 2910..3169, 4567..4626, 5002..5057, 5425..5477, 5527..5923, 7668..7950		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122110	Strand	-
Start	1	End	7950
Name	OJ000320_21.0419.C30.o1.gp	Method	AAT/GAP
Start	101	End	1050
GI	4714811	Score	1290
Exons	101..192, 283..365, 443..942, 1020..1050		
GI Descrip.	4455359/emb|CAB36769.1| 5.0e-29 (AL035524) putative protein [Arabidopsis thaliana]		

Seq. No.	58457	Seq. ID	OJ000320_21.0419.C30
Gene No.	122110	Strand	-
Start	1	End	7950
Name	OJ000320_21.0419.C30.o2.tm	Method	TBLASTX:Maize
Start	664	End	1062
GI	none	Score	134
Exons	664..951, 665..940, 802..945, 1015..1062, 1017..1061		

Seq. No.	58458	Seq. ID	OJ000320_21.0419.C31
Gene No.	122111	Strand	+
Start	6	End	1130
Name	OJ000320_21.0419.C31.o1.gs	Method	GENSCAN
Start	6	End	1130

GI	none	Score	.78
Exons	6..133, 833..1130		

Seq. No.	58459	Seq. ID	OJ000320_21.0419.C33
Gene No.	122112	Strand	+
Start	2795	End	6113
Name	OJ000320_21.0419.C33.o1.np	Method	AAT/NAP
Start	2795	End	4616
GI	729774	Score	307
Exons	2795..2879, 3811..3995, 4075..4217, 4263..4616		
GI Descrip.	HEAT SHOCK FACTOR PROTEIN HSF30 (HEAT SHOCK TRANSCRIPTION FACTOR 30) (HSTF 30) (HEAT STRESS TRANSCRIPTION FACTOR) gi|100265|pir||S25480 heat shock transcription factor HSF30 - Peruvian tomato gi|19490|emb|CAA47870.1| (X67601) heat stress transcription factor HSF30 [Lycopersicon peruvianum]		

Seq. No.	58459	Seq. ID	OJ000320_21.0419.C33
Gene No.	122112	Strand	+
Start	2795	End	6113
Name	OJ000320_21.0419.C33.o1.gs	Method	GENSCAN
Start	3741	End	6113
GI	none	Score	.91
Exons	3741..4022, 4075..4220, 4263..4780, 5903..5926, 6022..6113		

Seq. No.	58459	Seq. ID	OJ000320_21.0419.C33
Gene No.	122113	Strand	-
Start	6768	End	7031
Name	OJ000320_21.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	3788	End	4173
GI	none	Score	191
Exons	3788..3994, 3789..3995, 4074..4145, 4075..4173		

Seq. No.	58459	Seq. ID	OJ000320_21.0419.C33
Gene No.	122113	Strand	-
Start	6768	End	7031
Name	OJ000320_21.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	3815	End	4494
GI	none	Score	217
Exons	3815..4018, 3816..3995, 4074..4148, 4075..4170, 4285..4494		

Seq. No.	58459	Seq. ID	OJ000320_21.0419.C33
Gene No.	122113	Strand	-
Start	6768	End	7031
Name	OJ000320_21.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	3815	End	4512
GI	none	Score	215
Exons	3815..4018, 3816..3995, 4074..4166, 4075..4170, 4285..4512		

Seq. No.	58459	Seq. ID	OJ000320_21.0419.C33
Gene No.	122113	Strand	-
Start	6768	End	7031
Name	OJ000320_21.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	3815	End	4157
GI	none	Score	201
Exons	3815..3994, 3816..3995, 4066..4149, 4074..4157, 4075..4149		

Seq. No.	58459	Seq. ID	OJ000320_21.0419.C33

Gene No.	122113	Strand	-
Start	6768	End	7031
Name	OJ000320_21.0419.C33.o2.gs	Method	GENSCAN
Start	6768	End	7031
GI	none	Score	.59
Exons	6768..7031		

Seq. No.	58460	Seq. ID	OJ000320_21.0419.C34
Gene No.	122114	Strand	-
Start	5710	End	9909
Name	OJ000320_21.0419.C34.o1.np	Method	AAT/NAP
Start	5710	End	7924
GI	7523516	Score	50
Exons	5710..5771, 7877..7924		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58460	Seq. ID	OJ000320_21.0419.C34
Gene No.	122114	Strand	-
Start	5710	End	9909
Name	OJ000320_21.0419.C34.o2.gs	Method	GENSCAN
Start	6968	End	9909
GI	none	Score	.87
Exons	6968..7149, 7200..7346, 7584..7672, 8813..9909		

Seq. No.	58460	Seq. ID	OJ000320_21.0419.C34
Gene No.	122115	Strand	-
Start	11405	End	11849
Name	OJ000320_21.0419.C34.o3.gs	Method	GENSCAN
Start	11405	End	11849
GI	none	Score	.71
Exons	11405..11783, 11791..11849		

Seq. No.	58460	Seq. ID	OJ000320_21.0419.C34
Gene No.	122116	Strand	-
Start	13063	End	17904
Name	OJ000320_21.0419.C34.o4.gs	Method	GENSCAN
Start	13063	End	17904
GI	none	Score	.72
Exons	13063..13198, 13277..13667, 15911..16045, 16146..16272, 16348..16409, 17355..17593, 17801..17904		

Seq. No.	58461	Seq. ID	OJ000320_21.0419.C35
Gene No.	122117	Strand	+
Start	402	End	541
Name	OJ000320_21.0419.C35.o1.gs	Method	GENSCAN
Start	402	End	541
GI	none	Score	.48
Exons	402..541		

Seq. No.	58462	Seq. ID	OJ000330_21.0419.C1
Gene No.	122118	Strand	+
Start	660	End	977
Name	OJ000330_21.0419.C1.o1.gs	Method	GENSCAN
Start	660	End	977
GI	none	Score	.9
Exons	660..666, 844..977		

Seq. No.	58462	Seq. ID	OJ000330_21.0419.C1
Gene No.	122119	Strand	-
Start	1566	End	1965
Name	OJ000330_21.0419.C1.o1.gp	Method	AAT/GAP
Start	1566	End	1965
GI	557_1.R1084	Score	769
Exons	1566..1965		
GI Descrip.	'576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	58462	Seq. ID	OJ000330_21.0419.C1
Gene No.	122120	Strand	-
Start	1918	End	1995
Name	OJ000330_21.0419.C1.o2.gs	Method	GENSCAN
Start	1918	End	1995
GI	none	Score	.83
Exons	1918..1995		

Seq. No.	58463	Seq. ID	OJ000330_21.0419.C2
Gene No.	122121	Strand	-
Start	1	End	1196
Name	OJ000330_21.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1196
GI	2130078	Score	84
Exons	1..102, 340..428, 1076..1196		
GI Descrip.	MADS-box protein 3 - rice gi|886405|gb|AAA99964.1| (L37528) MADS box protein [Oryza sativa]		

Seq. No.	58463	Seq. ID	OJ000330_21.0419.C2
Gene No.	122121	Strand	-
Start	1	End	1196
Name	OJ000330_21.0419.C2.o1.gp	Method	AAT/GAP
Start	340	End	424
GI	557_1.R1084	Score	123
Exons	340..424		
GI Descrip.	'576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	58463	Seq. ID	OJ000330_21.0419.C2
Gene No.	122121	Strand	-
Start	1	End	1196
Name	OJ000330_21.0419.C2.o1.gs	Method	GENSCAN
Start	340	End	588
GI	none	Score	.66
Exons	340..421, 530..588		

Seq. No.	58464	Seq. ID	OJ000330_21.0419.C3
Gene No.	122122	Strand	-
Start	320	End	792
Name	OJ000330_21.0419.C3.o1.gs	Method	GENSCAN
Start	320	End	792
GI	none	Score	.44
Exons	320..370, 415..493, 698..792		

Seq. No.	58465	Seq. ID	OJ000330_21.0419.C5
Gene No.	122123	Strand	+
Start	439	End	549

Name	OJ000330_21.0419.C5.o1.gs	Method	GENSCAN
Start	439	End	549
GI	none	Score	.4
Exons	439..549		

Seq. No.	58466	Seq. ID	OJ000330_21.0419.C7
Gene No.	122124	Strand	+
Start	5094	End	7033
Name	OJ000330_21.0419.C7.o2.np	Method	AAT/NAP
Start	5094	End	7033
GI	4512671	Score	227
Exons	5094..5137, 5930..6103, 6364..6524, 6552..6615, 6707..7033		
GI Descrip.	(AC006931) En/Spm-like transposon protein [Arabidopsis thaliana] gi|4929128|gb|AAD33868.1|AF141375_1 (AF141375) protodermal factor 1 [Arabidopsis thaliana] gi|4929130|gb|AAD33869.1|AF141376_1 (AF141376) protodermal factor 1 [Arabidopsis thaliana]		

Seq. No.	58466	Seq. ID	OJ000330_21.0419.C7
Gene No.	122124	Strand	+
Start	5094	End	7033
Name	OJ000330_21.0419.C7.o1.np	Method	AAT/NAP
Start	5145	End	5229
GI	5852084	Score	77
Exons	5145..5229		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	58466	Seq. ID	OJ000330_21.0419.C7
Gene No.	122124	Strand	+
Start	5094	End	7033
Name	OJ000330_21.0419.C7.o2.gp	Method	AAT/GAP
Start	6173	End	6388
GI	427450	Score	375
Exons	6173..6388		

Seq. No.	58466	Seq. ID	OJ000330_21.0419.C7
Gene No.	122124	Strand	+
Start	5094	End	7033
Name	OJ000330_21.0419.C7.o3.gp	Method	AAT/GAP
Start	6704	End	6971
GI	2311563	Score	455
Exons	6704..6971		

Seq. No.	58466	Seq. ID	OJ000330_21.0419.C7
Gene No.	122125	Strand	+
Start	7056	End	7294
Name	OJ000330_21.0419.C7.o4.gp	Method	AAT/GAP
Start	7056	End	7294
GI	3760560	Score	424
Exons	7056..7294		

Seq. No.	58466	Seq. ID	OJ000330_21.0419.C7
Gene No.	122126	Strand	-
Start	708	End	788
Name	OJ000330_21.0419.C7.o1.gp	Method	AAT/GAP
Start	708	End	788
GI	38012_1.R1084	Score	101

Exons	708..788		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		
Seq. No.	58466	Seq. ID	OJ000330_21.0419.C7
Gene No.	122127	Strand	
Start	6699	End	6959
Name	OJ000330_21.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6699	End	6959
GI	none	Score	90
Exons	6699..6749, 6707..6748, 6804..6959, 6816..6938		
Seq. No.	58467	Seq. ID	OJ000330_21.0419.C8
Gene No.	122128	Strand	+
Start	1870	End	8608
Name	OJ000330_21.0419.C8.o3.np	Method	AAT/NAP
Start	1870	End	8608
GI	7340909	Score	60
Exons	1870..1943, 2349..2378, 5577..5718, 5895..5999, 8564..8608		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	58467	Seq. ID	OJ000330_21.0419.C8
Gene No.	122128	Strand	+
Start	1870	End	8608
Name	OJ000330_21.0419.C8.o2.gs	Method	GENSCAN
Start	2436	End	3332
GI	none	Score	1
Exons	2436..3332		
Seq. No.	58467	Seq. ID	OJ000330_21.0419.C8
Gene No.	122128	Strand	+
Start	1870	End	8608
Name	OJ000330_21.0419.C8.o2.np	Method	AAT/NAP
Start	2457	End	3236
GI	7486634	Score	267
Exons	2457..2628, 2761..3236		
GI Descrip.	hypothetical protein F8B4.190 - Arabidopsis thaliana gi|4049351|emb|CAA22576.1| (AL034567) nodulin-like protein [Arabidopsis thaliana] gi|7270153|emb|CAB79966.1| (AL161581) nodulin-like protein [Arabidopsis thaliana]		
Seq. No.	58467	Seq. ID	OJ000330_21.0419.C8
Gene No.	122129	Strand	-
Start	631	End	5336
Name	OJ000330_21.0419.C8.o1.np	Method	AAT/NAP
Start	631	End	5336
GI	6069646	Score	366
Exons	631..956, 5303..5336		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		
Seq. No.	58467	Seq. ID	OJ000330_21.0419.C8
Gene No.	122130	Strand	-
Start	8457	End	10512

Name	OJ000330_21.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	5831	End	6019
GI	none	Score	277
Exons	5831..6019, 5833..6018		

Seq. No.	58467	Seq. ID	OJ000330_21.0419.C8
Gene No.	122130	Strand	-
Start	8457	End	10512
Name	OJ000330_21.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	5860	End	6019
GI	none	Score	201
Exons	5860..6018, 5861..6019		

Seq. No.	58467	Seq. ID	OJ000330_21.0419.C8
Gene No.	122130	Strand	-
Start	8457	End	10512
Name	OJ000330_21.0419.C8.o4.gs	Method	GENSCAN
Start	8457	End	10512
GI	none	Score	.68
Exons	8457..8575, 10342..10512		

Seq. No.	58468	Seq. ID	OJ000330_21.0419.C9
Gene No.	122131	Strand	+
Start	3256	End	4247
Name	OJ000330_21.0419.C9.o2.np	Method	AAT/NAP
Start	3256	End	4247
GI	6997176	Score	191
Exons	3256..3352, 3682..4247		
GI Descrip.	(AC023839) unknown protein [Arabidopsis thaliana]		

Seq. No.	58468	Seq. ID	OJ000330_21.0419.C9
Gene No.	122132	Strand	-
Start	96	End	1521
Name	OJ000330_21.0419.C9.o1.np	Method	AAT/NAP
Start	96	End	1521
GI	5852084	Score	92
Exons	96..182, 1480..1521		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	58468	Seq. ID	OJ000330_21.0419.C9
Gene No.	122133	Strand	
Start	3861	End	4166
Name	OJ000330_21.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	3861	End	4166
GI	none	Score	105
Exons	3861..3923, 3861..3917, 3863..3919, 4002..4166, 4005..4136		

Seq. No.	58469	Seq. ID	OJ000330_21.0419.C10
Gene No.	122134	Strand	+
Start	1939	End	2308
Name	OJ000330_21.0419.C10.o1.gs	Method	GENSCAN
Start	1939	End	2308
GI	none	Score	.41
Exons	1939..2060, 2158..2308		

Seq. No.	58469	Seq. ID	OJ000330_21.0419.C10
Gene No.	122135	Strand	-

Start	3574	End	8511
Name	OJ000330_21.0419.C10.o2.gs	Method	GENSCAN
Start	3574	End	8511
GI	none	Score	.54
Exons	3574..3593, 5105..5252, 6066..6221, 8419..8511		

Seq. No.	58470	Seq. ID	OJ000330_21.0419.C12
Gene No.	122136	Strand	+
Start	594	End	830
Name	OJ000330_21.0419.C12.o1.gp	Method	AAT/GAP
Start	594	End	830
GI	2310154	Score	429
Exons	594..830		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122137	Strand	+
Start	1	End	1659
Name	OJ000330_21.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1659
GI	478809	Score	972
Exons	1..124, 182..421, 826..1281, 1390..1659		
GI Descrip.	protein kinase 6 (EC 2.7.1.-) - soybean gi|170047 (M67449) protein kinase [Glycine max] gi|444789|prf||1908223A protein kinase [Glycine max]		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122137	Strand	+
Start	1	End	1659
Name	OJ000330_21.0419.C13.o1.gs	Method	GENSCAN
Start	48	End	1632
GI	none	Score	.59
Exons	48..421, 826..1281, 1390..1632		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122137	Strand	+
Start	1	End	1659
Name	OJ000330_21.0419.C13.o1.gp	Method	AAT/GAP
Start	982	End	1588
GI	LIB3434-042-P1-K1-C2	Score	906
Exons	982..1281, 1390..1588		
GI Descrip.	'478809/pir||S29851 2.0e-53 protein kinase 6 (EC 2.7.1.-) - soybean >gi_170047 (M67449) protein kinase [Glycine max] >gi_444789_prf__1908223A protein kinase [Glycine max]'		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122138	Strand	+
Start	2861	End	3286
Name	OJ000330_21.0419.C13.o2.gp	Method	AAT/GAP
Start	2861	End	3286
GI	none	Score	757
Exons	2861..3286		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	158	End	1640

GI	none	Score	232
Exons	158..421, 199..417, 802..1224, 816..1280, 817..1281, 1378..1545, 1398..1514, 1441..1530, 1549..1611, 1571..1618, 1596..1640		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	344	End	1281
GI	none	Score	114
Exons	344..424, 344..421, 346..423, 814..1266, 815..1264, 816..1280, 817..1281		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	835	End	1239
GI	none	Score	501
Exons	835..1239, 840..1238		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	862	End	1509
GI	none	Score	191
Exons	862..1101, 931..1089, 1099..1272, 1120..1209, 1396..1509		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o4.tm	Method	TBLASTX:Maize
Start	1378	End	1640
GI	none	Score	189
Exons	1378..1545, 1398..1514, 1441..1530, 1549..1611, 1571..1618, 1596..1640		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	3143	End	4310
GI	none	Score	268
Exons	3143..3262, 3368..3793, 3402..3791, 3897..3971, 3898..3933, 4053..4310, 4054..4218		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o2.gs	Method	GENSCAN
Start	3146	End	4748
GI	none	Score	.69
Exons	3146..3800, 3895..3970, 4052..4748		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-

Start	3146	End	5679
Name	OJ000330_21.0419.C13.o2.np	Method	AAT/NAP
Start	3149	End	5679
GI	6997181	Score	1078
Exons	3149..3309, 3340..3800, 3895..3970, 4052..4388, 5628..5679		
GI Descrip.	(AC023839) unknown protein [Arabidopsis thaliana]		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	3152	End	3586
GI	none	Score	142
Exons	3152..3235, 3368..3586, 3402..3584		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o2.tc	Method	TBLASTX:Cress
Start	3491	End	3932
GI	none	Score	222
Exons	3491..3796, 3534..3797, 3897..3932		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	3542	End	4097
GI	none	Score	140
Exons	3542..3796, 3546..3710, 3894..3971, 4053..4097		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	3587	End	4193
GI	none	Score	126
Exons	3587..3793, 3588..3794, 3876..3971, 3877..3960, 4053..4193		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o3.tc	Method	TBLASTX:Cress
Start	4092	End	4391
GI	none	Score	66
Exons	4092..4391, 4309..4380		

Seq. No.	58471	Seq. ID	OJ000330_21.0419.C13
Gene No.	122139	Strand	-
Start	3146	End	5679
Name	OJ000330_21.0419.C13.o5.tm	Method	TBLASTX:Maize
Start	4197	End	4398
GI	none	Score	90
Exons	4197..4397, 4309..4398		

Seq. No.	58472	Seq. ID	OJ000330_21.0419.C14
Gene No.	122140	Strand	-

Start	652	End	4778
Name	OJ000330_21.0419.C14.o1.gs	Method	GENSCAN
Start	652	End	4707
GI	none	Score	.62
Exons	652..873, 2194..2293, 3036..3224, 3738..3994, 4303..4707		

Seq. No.	58472	Seq. ID	OJ000330_21.0419.C14
Gene No.	122140	Strand	-
Start	652	End	4778
Name	OJ000330_21.0419.C14.o1.gp	Method	AAT/GAP
Start	3255	End	3759
GI	2317356	Score	933
Exons	3255..3759		

Seq. No.	58472	Seq. ID	OJ000330_21.0419.C14
Gene No.	122140	Strand	-
Start	652	End	4778
Name	OJ000330_21.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	3717	End	4340
GI	none	Score	118
Exons	3717..3827, 3728..3865, 3732..3827, 3829..3936, 3842..3937, 3848..3934, 3927..3998, 3932..4018, 3933..3998, 3935..4018, 4263..4340		

Seq. No.	58472	Seq. ID	OJ000330_21.0419.C14
Gene No.	122140	Strand	-
Start	652	End	4778
Name	OJ000330_21.0419.C14.o1.np	Method	AAT/NAP
Start	3791	End	3994
GI	7239515	Score	89
Exons	3791..3994		
GI Descrip.	(AC012654) Strong similarity to the putative protein kinase F26A9.10 gi|6682614 from A. thaliana on BAC gb|AC016163 ; It contains an eukaryotic protein kinase domain PF|00069. This gene is cut off. [Arabidopsis thaliana]		

Seq. No.	58472	Seq. ID	OJ000330_21.0419.C14
Gene No.	122140	Strand	-
Start	652	End	4778
Name	OJ000330_21.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	3848	End	3995
GI	none	Score	67
Exons	3848..3994, 3863..3991, 3936..3995		

Seq. No.	58472	Seq. ID	OJ000330_21.0419.C14
Gene No.	122140	Strand	-
Start	652	End	4778
Name	OJ000330_21.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	4354	End	4778
GI	none	Score	100
Exons	4354..4515, 4355..4492, 4396..4503, 4501..4596, 4507..4605, 4508..4606, 4606..4752, 4606..4749, 4608..4778		

Seq. No.	58472	Seq. ID	OJ000330_21.0419.C14
Gene No.	122140	Strand	-
Start	652	End	4778
Name	OJ000330_21.0419.C14.o2.gp	Method	AAT/GAP

Start	4597	End	4752
GI	uC-osflcyp068e01b1	Score	283
Exons	4597..4752		
GI Descrip.	'4539004/emb|CAB39625.1| 2.0e-42 (AL049481) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	58473	Seq. ID	OJ000330_21.0419.C15
Gene No.	122141	Strand	-
Start	1	End	1392
Name	OJ000330_21.0419.C15.o1.gp	Method	AAT/GAP
Start	1	End	1018
GI	uC-osflcyp068e01b1	Score	496
Exons	1..92, 849..1018		
GI Descrip.	'4539004/emb|CAB39625.1| 2.0e-42 (AL049481) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	58473	Seq. ID	OJ000330_21.0419.C15
Gene No.	122141	Strand	-
Start	1	End	1392
Name	OJ000330_21.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1392
GI	3776559	Score	357
Exons	1..92, 849..1076, 1374..1392		
GI Descrip.	(AC005388) Strong similarity to gene F14J9.26 gi|3482933 cdc2 protein kinase homolog from A. thaliana BAC gb|AC003970. ESTs gb|Z35332 and gb|F19907 come from this gene. [Arabidopsis thaliana]		

Seq. No.	58473	Seq. ID	OJ000330_21.0419.C15
Gene No.	122141	Strand	-
Start	1	End	1392
Name	OJ000330_21.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1	End	1077
GI	none	Score	91
Exons	1..90, 3..92, 678..737, 843..1070, 849..1031, 850..1077		

Seq. No.	58473	Seq. ID	OJ000330_21.0419.C15
Gene No.	122141	Strand	-
Start	1	End	1392
Name	OJ000330_21.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	3	End	1077
GI	none	Score	243
Exons	3..95, 843..881, 850..1077, 936..1070, 946..1077		

Seq. No.	58473	Seq. ID	OJ000330_21.0419.C15
Gene No.	122141	Strand	-
Start	1	End	1392
Name	OJ000330_21.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	15	End	1079
GI	none	Score	61
Exons	15..80, 15..92, 840..899, 840..1070, 841..1077, 933..1079, 937..1077, 938..1078		

Seq. No.	58473	Seq. ID	OJ000330_21.0419.C15
Gene No.	122141	Strand	-
Start	1	End	1392
Name	OJ000330_21.0419.C15.o1.gs	Method	GENSCAN

Start	854	End	1076
GI	none	Score	.65
Exons	854..1076		

Seq. No.	58473	Seq. ID	OJ000330_21.0419.C15
Gene No.	122141	Strand	-
Start	1	End	1392
Name	OJ000330_21.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	942	End	1077
GI	none	Score	133
Exons	942..1070, 943..1077		

Seq. No.	58474	Seq. ID	OJ000330_21.0419.C16
Gene No.	122142	Strand	-
Start	1	End	1449
Name	OJ000330_21.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1449
GI	3776559	Score	506
Exons	1..415, 1334..1449		
GI Descrip.	(AC005388) Strong similarity to gene F14J9.26 gi|3482933 cdc2 protein kinase homolog from A. thaliana BAC gb|AC003970. ESTs gb|Z35332 and gb|F19907 come from this gene. [Arabidopsis thaliana]		

Seq. No.	58474	Seq. ID	OJ000330_21.0419.C16
Gene No.	122142	Strand	-
Start	1	End	1449
Name	OJ000330_21.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	119	End	371
GI	none	Score	213
Exons	119..358, 138..371		

Seq. No.	58474	Seq. ID	OJ000330_21.0419.C16
Gene No.	122142	Strand	-
Start	1	End	1449
Name	OJ000330_21.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	119	End	346
GI	none	Score	326
Exons	119..346, 126..344, 179..346		

Seq. No.	58474	Seq. ID	OJ000330_21.0419.C16
Gene No.	122142	Strand	-
Start	1	End	1449
Name	OJ000330_21.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	119	End	1448
GI	none	Score	335
Exons	119..418, 126..416, 295..417, 1326..1448, 1331..1447		

Seq. No.	58474	Seq. ID	OJ000330_21.0419.C16
Gene No.	122142	Strand	-
Start	1	End	1449
Name	OJ000330_21.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	119	End	284
GI	none	Score	159
Exons	119..283, 129..284		

Seq. No.	58474	Seq. ID	OJ000330_21.0419.C16

Gene No.	122142	Strand	-
Start	1	End	1449
Name	OJ000330_21.0419.C16.o1.gs	Method	GENSCAN
Start	131	End	415
GI	none	Score	.75
Exons	131..415		

Seq. No.	58474	Seq. ID	OJ000330_21.0419.C16
Gene No.	122142	Strand	-
Start	1	End	1449
Name	OJ000330_21.0419.C16.o1.gp	Method	AAT/GAP
Start	145	End	1449
GI	2317355	Score	683
Exons	145..415, 1334..1449		
GI Descrip.	4539004/emb|CAB39625.1| 2.0e-42 (AL049481) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	58475	Seq. ID	OJ000330_21.0419.C17
Gene No.	122143	Strand	-
Start	645	End	9351
Name	OJ000330_21.0419.C17.o1.gs	Method	GENSCAN
Start	645	End	9351
GI	none	Score	.48
Exons	645..677, 1294..1340, 2927..2985, 3084..3241, 4938..5076, 5386..5532, 9257..9351		

Seq. No.	58476	Seq. ID	OJ000330_21.0419.C19
Gene No.	122144	Strand	+
Start	452	End	832
Name	OJ000330_21.0419.C19.o1.np	Method	AAT/NAP
Start	452	End	832
GI	2130078	Score	179
Exons	452..518, 614..716, 799..832		
GI Descrip.	MADS-box protein 3 - rice gi|886405|gb|AAA99964.1| (L37528) MADS box protein [Oryza sativa]		

Seq. No.	58476	Seq. ID	OJ000330_21.0419.C19
Gene No.	122144	Strand	+
Start	452	End	832
Name	OJ000330_21.0419.C19.o1.gp	Method	AAT/GAP
Start	453	End	716
GI	557_1.R1084	Score	280
Exons	453..518, 614..716		
GI Descrip.	'576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	58477	Seq. ID	OJ000350_22.0419.C1
Gene No.	122145	Strand	+
Start	1	End	922
Name	OJ000350_22.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	922
GI	4680179	Score	1343
Exons	1..922		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	58477	Seq. ID	OJ000350_22.0419.C1
Gene No.	122145	Strand	+

Start	1	End	922
Name	OJ000350_22.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	5	End	400
GI	none	Score	57
Exons	5..37, 5..37, 41..400, 43..84, 157..390		

Seq. No.	58477	Seq. ID	OJ000350_22.0419.C1
Gene No.	122145	Strand	+
Start	1	End	922
Name	OJ000350_22.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	5	End	451
GI	none	Score	100
Exons	5..130, 131..451, 202..330		

Seq. No.	58477	Seq. ID	OJ000350_22.0419.C1
Gene No.	122145	Strand	+
Start	1	End	922
Name	OJ000350_22.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	113	End	415
GI	none	Score	418
Exons	113..415, 154..414		

Seq. No.	58477	Seq. ID	OJ000350_22.0419.C1
Gene No.	122145	Strand	+
Start	1	End	922
Name	OJ000350_22.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	416	End	841
GI	none	Score	600
Exons	416..841, 418..834, 491..841		

Seq. No.	58477	Seq. ID	OJ000350_22.0419.C1
Gene No.	122145	Strand	+
Start	1	End	922
Name	OJ000350_22.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	422	End	670
GI	none	Score	207
Exons	422..670		

Seq. No.	58477	Seq. ID	OJ000350_22.0419.C1
Gene No.	122145	Strand	+
Start	1	End	922
Name	OJ000350_22.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	488	End	841
GI	none	Score	465
Exons	488..841, 493..834		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2
Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	903
GI	6983859	Score	1540
Exons	1..903		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2

Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	2	End	590
GI	none	Score	241
Exons	2..430, 3..431, 365..586, 379..432, 435..581, 437..589, 438..590		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2
Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o3.tw	Method	TBLASTX:Wheat
Start	17	End	143
GI	none	Score	115
Exons	17..142, 18..143		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2
Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o1.gs	Method	GENSCAN
Start	38	End	835
GI	none	Score	.9
Exons	38..835		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2
Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	143	End	769
GI	none	Score	313
Exons	143..769, 144..713		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2
Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	638	End	902
GI	none	Score	219
Exons	638..901, 642..902		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2
Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	728	End	902
GI	none	Score	148
Exons	728..901, 729..902		

Seq. No.	58478	Seq. ID	OJ000350_22.0419.C2
Gene No.	122146	Strand	-
Start	1	End	903
Name	OJ000350_22.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	776	End	902
GI	none	Score	143
Exons	776..901, 780..902		

Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122147	Strand	+

Start	1394	End	5509
Name	OJ000350_22.0419.C3.o2.np	Method	AAT/NAP
Start	1394	End	5509
GI	7228457	Score	5647
Exons	1394..1760, 1822..3757, 3821..4654, 4777..5509		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	261
GI	6983859	Score	292
Exons	1..261		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o4.tm	Method	TBLASTX:Maize
Start	110	End	5364
GI	none	Score	74
Exons	110..259, 147..260, 5224..5364		

Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o6.tw	Method	TBLASTX:Wheat
Start	110	End	260
GI	none	Score	94
Exons	110..259, 125..259, 132..260, 162..260		

Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o4.tw	Method	TBLASTX:Wheat
Start	2051	End	2440
GI	none	Score	54
Exons	2051..2095, 2102..2200, 2119..2199, 2167..2406, 2183..2440		

Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	2090	End	2338
GI	none	Score	196
Exons	2090..2338, 2092..2337		

Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o3.tw	Method	TBLASTX:Wheat
Start	3178	End	3664
GI	none	Score	409

Exons	3178..3351, 3179..3664, 3373..3633		
Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	3828	End	4291
GI	none	Score	62
Exons	3828..3926, 3829..4284, 3830..4291, 3830..4285		
Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	3869	End	4234
GI	none	Score	114
Exons	3869..4093, 4100..4234		
Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	3959	End	4315
GI	none	Score	382
Exons	3959..4315, 3994..4305, 4010..4315		
Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	4342	End	4725
GI	none	Score	279
Exons	4342..4626, 4343..4627, 4615..4725		
Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	4399	End	4818
GI	none	Score	279
Exons	4399..4629, 4400..4630, 4612..4818, 4638..4793		
Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	4478	End	4848
GI	none	Score	151
Exons	4478..4621, 4495..4620, 4618..4848		
Seq. No.	58479	Seq. ID	OJ000350_22.0419.C3
Gene No.	122148	Strand	-
Start	1	End	5448
Name	OJ000350_22.0419.C3.o5.tw	Method	TBLASTX:Wheat
Start	5152	End	5448
GI	none	Score	280
Exons	5152..5448, 5181..5444, 5212..5445		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122149	Strand	+
Start	1	End	1915
Name	OJ000350_22.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1912
GI	7228457	Score	2958
Exons	1..295, 362..1912		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122149	Strand	+
Start	1	End	1915
Name	OJ000350_22.0419.C4.o1.gs	Method	GENSCAN
Start	143	End	1915
GI	none	Score	.69
Exons	143..879, 1099..1915		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122150	Strand	-
Start	2535	End	3562
Name	OJ000350_22.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	3	End	427
GI	none	Score	77
Exons	3..68, 136..360, 137..427		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122150	Strand	-
Start	2535	End	3562
Name	OJ000350_22.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	782	End	1125
GI	none	Score	346
Exons	782..1105, 811..1092, 991..1125		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122150	Strand	-
Start	2535	End	3562
Name	OJ000350_22.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	919	End	1300
GI	none	Score	356
Exons	919..1269, 920..1300		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122150	Strand	-
Start	2535	End	3562
Name	OJ000350_22.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	1301	End	1903
GI	none	Score	268
Exons	1301..1585, 1306..1590, 1777..1899, 1778..1903		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122150	Strand	-
Start	2535	End	3562
Name	OJ000350_22.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	1772	End	1915

GI	none	Score	184
Exons	1772..1915, 1777..1911		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122150	Strand	-
Start	2535	End	3562
Name	OJ000350_22.0419.C4.o2.gs	Method	GENSCAN
Start	2535	End	3506
GI	none	Score	1
Exons	2535..3506		

Seq. No.	58480	Seq. ID	OJ000350_22.0419.C4
Gene No.	122150	Strand	-
Start	2535	End	3562
Name	OJ000350_22.0419.C4.o2.np	Method	AAT/NAP
Start	2538	End	3562
GI	7228456	Score	1398
Exons	2538..3562		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122151	Strand	+
Start	18400	End	20114
Name	OJ000350_22.0419.C5.o6.np	Method	AAT/NAP
Start	18400	End	20114
GI	6907086	Score	1119
Exons	18400..19185, 19249..19472, 19709..20114		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122152	Strand	-
Start	455	End	10470
Name	OJ000350_22.0419.C5.o1.np	Method	AAT/NAP
Start	344	End	4905
GI	4680179	Score	7730
Exons	344..4905		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122152	Strand	-
Start	455	End	10470
Name	OJ000350_22.0419.C5.o1.gs	Method	GENSCAN
Start	455	End	10470
GI	none	Score	.43
Exons	455..1135, 1337..1398, 1554..4905, 5316..5438, 5482..6075, 8572..8657, 8749..8863, 9284..9334, 9619..10470		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122152	Strand	-
Start	455	End	10470
Name	OJ000350_22.0419.C5.o2.np	Method	AAT/NAP
Start	5158	End	6009
GI	5042448	Score	1259
Exons	5158..6009		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122152	Strand	-
Start	455	End	10470
Name	OJ000350_22.0419.C5.o3.np	Method	AAT/NAP
Start	6276	End	10470
GI	6907089	Score	1266
Exons	6276..6296, 9697..10470		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122152	Strand	-
Start	455	End	10470
Name	OJ000350_22.0419.C5.o1.gp	Method	AAT/GAP
Start	6641	End	6851
GI	1631463	Score	306
Exons	6641..6851		
GI Descrip.	4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122153	Strand	-
Start	12093	End	14951
Name	OJ000350_22.0419.C5.o4.np	Method	AAT/NAP
Start	12093	End	14951
GI	4680179	Score	2402
Exons	12093..13795, 13898..14951		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122154	Strand	-
Start	15445	End	16226
Name	OJ000350_22.0419.C5.o5.np	Method	AAT/NAP
Start	15445	End	16226
GI	6002794	Score	1212
Exons	15445..16226		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o8.tm	Method	TBLASTX:Maize
Start	368	End	565
GI	none	Score	189
Exons	368..565		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o6.tw	Method	TBLASTX:Wheat
Start	389	End	722
GI	none	Score	110
Exons	389..721, 513..722		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850

Name	OJ000350_22.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	569	End	1168
GI	none	Score	251
Exons	569..1009, 582..1007, 1007..1168, 1014..1160		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	722	End	1348
GI	none	Score	344
Exons	722..1348, 723..1346		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o4.tm	Method	TBLASTX:Maize
Start	1217	End	1508
GI	none	Score	250
Exons	1217..1507, 1221..1508		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	1307	End	1567
GI	none	Score	160
Exons	1307..1567, 1308..1562		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o5.tw	Method	TBLASTX:Wheat
Start	1355	End	1833
GI	none	Score	226
Exons	1355..1615, 1356..1598, 1555..1833, 1661..1762		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	1837	End	12381
GI	none	Score	210
Exons	1837..2346, 1921..2268, 1925..2314, 12102..12323, 12102..12380, 12115..12381		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	1909	End	12308
GI	none	Score	146
Exons	1909..2220, 1911..2222, 1921..2274, 2006..2272, 12102..12308, 12115..12306		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-

Start	16526	End	19850
Name	OJ000350_22.0419.C5.o3.ts	Method	TBLASTX:Soybean
Start	2095	End	12374
GI	none	Score	210
Exons	2095..2340, 12129..12374		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o3.tm	Method	TBLASTX:Maize
Start	2311	End	12845
GI	none	Score	43
Exons	2311..2646, 2354..2404, 2429..2560, 2632..2811, 12345..12659, 12666..12845		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o4.tw	Method	TBLASTX:Wheat
Start	2347	End	12683
GI	none	Score	257
Exons	2347..2649, 2348..2617, 2547..2648, 12387..12683, 12390..12623, 12424..12639		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	2362	End	12791
GI	none	Score	173
Exons	2362..2721, 2363..2617, 2641..2721, 2725..2757, 2726..2755, 12396..12755, 12424..12639, 12679..12774, 12759..12791		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	2698	End	13215
GI	none	Score	149
Exons	2698..3180, 2731..3030, 2741..3076, 12732..13214, 12760..13215		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o5.tm	Method	TBLASTX:Maize
Start	2879	End	13203
GI	none	Score	165
Exons	2879..3070, 2881..3168, 12915..13187, 12915..13202, 12916..13203		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o8.tw	Method	TBLASTX:Wheat
Start	3343	End	13760
GI	none	Score	104
Exons	3343..3528, 3344..3499, 3550..3759, 3611..3706, 13356..13526, 13384..13530, 13539..13760, 13606..13716, 13707..13760		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o7.tm	Method	TBLASTX:Maize
Start	3442	End	13766
GI	none	Score	63
Exons	3442..3762, 3617..3706, 13443..13766		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o6.tm	Method	TBLASTX:Maize
Start	4102	End	14477
GI	none	Score	99
Exons	4102..4398, 4114..4395, 4211..4381, 14076..14477		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o7.tw	Method	TBLASTX:Wheat
Start	4279	End	14735
GI	none	Score	114
Exons	4279..4608, 4279..4638, 4538..4639, 14358..14735		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o2.gp	Method	AAT/GAP
Start	16526	End	17019
GI	38782_1.R1084	Score	805
Exons	16526..17019		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	58481	Seq. ID	OJ000350_22.0419.C5
Gene No.	122155	Strand	-
Start	16526	End	19850
Name	OJ000350_22.0419.C5.o3.gs	Method	GENSCAN
Start	16812	End	19850
GI	none	Score	.61
Exons	16812..16885, 17992..18096, 18529..18554, 18644..18801, 18851..19082, 19720..19850		

Seq. No.	58482	Seq. ID	OJ000350_22.0419.C6
Gene No.	122156	Strand	-
Start	8528	End	9976
Name	OJ000350_22.0419.C6.o2.tc	Method	TBLASTX:Cress
Start	1373	End	1525
GI	none	Score	131
Exons	1373..1525, 1374..1523		

Seq. No.	58482	Seq. ID	OJ000350_22.0419.C6
Gene No.	122156	Strand	-
Start	8528	End	9976
Name	OJ000350_22.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1373	End	1783

GI	none	Score	250
Exons	1373..1615, 1374..1616, 1649..1783, 1653..1751		

Seq. No.	58482	Seq. ID	OJ000350_22.0419.C6
Gene No.	122156	Strand	-
Start	8528	End	9976
Name	OJ000350_22.0419.C6.o1.np	Method	AAT/NAP
Start	7795	End	9802
GI	7263561	Score	526
Exons	7795..7916, 8570..9267, 9475..9802		
GI Descrip.	(AL161667) MYB transcription factor-like protein [Arabidopsis thaliana]		

Seq. No.	58482	Seq. ID	OJ000350_22.0419.C6
Gene No.	122156	Strand	-
Start	8528	End	9976
Name	OJ000350_22.0419.C6.o2.gs	Method	GENSCAN
Start	8528	End	9976
GI	none	Score	.96
Exons	8528..9267, 9475..9976		

Seq. No.	58482	Seq. ID	OJ000350_22.0419.C6
Gene No.	122156	Strand	-
Start	8528	End	9976
Name	OJ000350_22.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	8681	End	9676
GI	none	Score	57
Exons	8681..8725, 8713..8766, 8717..8767, 8718..8777, 8723..8803, 8768..8971, 8768..9268, 8769..9230, 9098..9265, 9476..9628, 9476..9676, 9477..9653		

Seq. No.	58482	Seq. ID	OJ000350_22.0419.C6
Gene No.	122156	Strand	-
Start	8528	End	9976
Name	OJ000350_22.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	9137	End	9664
GI	none	Score	78
Exons	9137..9265, 9144..9227, 9476..9664, 9495..9644		

Seq. No.	58482	Seq. ID	OJ000350_22.0419.C6
Gene No.	122156	Strand	-
Start	8528	End	9976
Name	OJ000350_22.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	9221	End	9679
GI	none	Score	161
Exons	9221..9268, 9476..9679, 9477..9650		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	3709
GI	7228442	Score	1235
Exons	1..432, 517..1939, 3654..3709		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o1.gs	Method	GENSCAN
Start	52	End	10140
GI	none	Score	.58
Exons	52..1876, 1929..2143, 2398..2629, 2695..2775, 3030..3166, 7688..7879, 7942..8305, 8382..9365, 10010..10140		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o2.np	Method	AAT/NAP
Start	6169	End	16413
GI	6478936	Score	1433
Exons	6169..6261, 7688..7845, 7926..8299, 8382..9365, 16286..16413		
GI Descrip.	(AC011436) putative laccase [Arabidopsis thaliana]		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o2.gs	Method	GENSCAN
Start	12386	End	25972
GI	none	Score	.45
Exons	12386..12528, 14674..14918, 14939..15130, 15336..16166, 17520..17551, 18210..18380, 19353..19495, 19640..20478, 22556..22641, 22811..22891, 23349..23456, 23649..23800, 24004..24203, 24364..24486, 24576..25496, 25941..25972		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o1.gp	Method	AAT/GAP
Start	15084	End	15720
GI	LIB3475-008-P1-K1-C6	Score	993
Exons	15084..15130, 15248..15720		
GI Descrip.	'2347188 9.0e-26 (AC002338) laccase isolog [Arabidopsis thaliana] >gi_3150401 (AC004165) putative laccase [Arabidopsis thaliana]'		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o3.np	Method	AAT/NAP
Start	19043	End	20807
GI	6907086	Score	1022
Exons	19043..19825, 19887..20153, 20403..20588, 20622..20807		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o7.np	Method	AAT/NAP
Start	23333	End	25745
GI	3805964	Score	855
Exons	23333..23456, 23649..23800, 24004..24250, 24364..24486,		

	24576..25496, 25621..25745		
GI Descrip.	(Y13773) laccase [Populus balsamifera subsp. trichocarpa]		
Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o5.np	Method	AAT/NAP
Start	23370	End	25745
GI	7546691	Score	998
Exons	23370..23456, 23649..23800, 24004..24250, 24364..24486, 24576..25496, 25621..25745		
GI Descrip.	(AL163652) laccase-like protein [Arabidopsis thaliana]		
Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122157	Strand	+
Start	1	End	25972
Name	OJ000350_22.0419.C7.o2.gp	Method	AAT/GAP
Start	24887	End	25168
GI	428558	Score	540
Exons	24887..25168		
Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122158	Strand	+
Start	28770	End	31995
Name	OJ000350_22.0419.C7.o3.gp	Method	AAT/GAP
Start	28685	End	28998
GI	58082_1.R1084	Score	612
Exons	28685..28998		
GI Descrip.	'4895187/gb|AAD32774.1|AC007661_11 6.0e-24 (AC007661) unknown protein [Arabidopsis thaliana]'		
Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122158	Strand	+
Start	28770	End	31995
Name	OJ000350_22.0419.C7.o3.gs	Method	GENSCAN
Start	28770	End	31995
GI	none	Score	.83
Exons	28770..29399, 29781..30914, 31303..31995		
Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122158	Strand	+
Start	28770	End	31995
Name	OJ000350_22.0419.C7.o8.np	Method	AAT/NAP
Start	28770	End	29417
GI	4895187	Score	699
Exons	28770..29417		
GI Descrip.	(AC007661) unknown protein [Arabidopsis thaliana]		
Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122158	Strand	+
Start	28770	End	31995
Name	OJ000350_22.0419.C7.o9.np	Method	AAT/NAP
Start	28918	End	31992
GI	6822055	Score	1360
Exons	28918..29011, 30403..30914, 31303..31992		
GI Descrip.	(AL132957) fructokinase-like protein [Arabidopsis thaliana]		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122158	Strand	+
Start	28770	End	31995
Name	OJ000350_22.0419.C7.o4.gp	Method	AAT/GAP
Start	29070	End	29621
GI	68365_1.R1084	Score	1068
Exons	29070..29621		
GI Descrip.	'4895187/gb|AAD32774.1|AC007661_11 1.0e-37 (AC007661) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o4.tm	Method	TBLASTX:Maize
Start	924	End	1506
GI	none	Score	135
Exons	924..1046, 925..1077, 1077..1382, 1078..1386, 1426..1506, 1428..1454		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	1215	End	1575
GI	none	Score	188
Exons	1215..1364, 1216..1392, 1216..1365, 1405..1575, 1413..1460, 1417..1506, 1439..1522		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o4.ts	Method	TBLASTX:Soybean
Start	7733	End	24205
GI	none	Score	120
Exons	7733..7849, 7744..7845, 7926..8198, 7927..8214, 12395..12532, 14674..14745, 14675..14920, 14764..14901, 23667..23783, 24004..24198, 24005..24205		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	7778	End	24199
GI	none	Score	67
Exons	7778..7849, 7786..7845, 7926..8210, 7927..8214, 14675..14920, 24005..24199		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	7927	End	24413
GI	none	Score	352
Exons	7927..8214, 7947..8204, 7981..8205, 14675..14920, 14677..14919, 14862..14969, 14988..15053, 14989..15054, 15013..15054, 24005..24199, 24032..24196, 24037..24198, 24363..24413		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o6.tm	Method	TBLASTX:Maize
Start	8031	End	24760
GI	none	Score	74
Exons	8031..8135, 8031..8135, 8032..8136, 8035..8136, 8139..8372, 8140..8325, 8371..8559, 8381..8560, 14779..14895, 14780..14896, 14989..15129, 15006..15125, 15007..15126, 15081..15140, 15253..15327, 15336..15398, 24104..24199, 24109..24198, 24357..24482, 24599..24760, 24607..24759		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o8.ts	Method	TBLASTX:Soybean
Start	8221	End	24823
GI	none	Score	52
Exons	8221..8289, 8372..8632, 8389..8580, 15043..15132, 15226..15327, 15330..15404, 15413..15490, 24387..24482, 24560..24823, 24598..24813		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	8389	End	28818
GI	none	Score	191
Exons	8389..8598, 8390..8593, 15315..15362, 24563..24859, 24598..24765, 28759..28818		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o8.tc	Method	TBLASTX:Cress
Start	8422	End	25291
GI	none	Score	187
Exons	8422..8631, 8423..8632, 8726..8794, 8932..9000, 8990..9061, 9113..9169, 15292..15327, 15330..15401, 15416..15496, 15764..15889, 15766..15888, 15911..15973, 15916..15969, 24623..24865, 24625..24813, 25148..25216, 25235..25291		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	8825	End	25688
GI	none	Score	64
Exons	8825..8884, 9008..9070, 9077..9235, 9112..9228, 9283..9378, 9284..9367, 10009..10083, 15683..15793, 15821..15889, 15887..16063, 15907..16062, 16079..16168, 16081..16167, 16266..16415, 16285..16416, 25004..25063, 25118..25216, 25298..25408, 25402..25500, 25409..25498, 25607..25687, 25620..25688		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-

Start	32168	End	40180
Name	OJ000350_22.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	9077	End	25688
GI	none	Score	158
Exons	9077..9235, 9077..9238, 9186..9239, 9281..9364, 9283..9369, 9284..9367, 10009..10083, 10009..10083, 15880..16071, 15881..16075, 16078..16170, 16079..16168, 16279..16353, 16284..16394, 16284..16403, 16285..16401, 25211..25294, 25298..25393, 25318..25398, 25409..25498, 25411..25497, 25593..25688, 25620..25688		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o6.tc	Method	TBLASTX:Cress
Start	9283	End	25688
GI	none	Score	110
Exons	9283..9366, 9284..9367, 10009..10080, 16004..16063, 16027..16062, 16079..16168, 16081..16167, 16284..16418, 16285..16422, 25405..25500, 25406..25498, 25602..25688		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o5.tm	Method	TBLASTX:Maize
Start	28763	End	29123
GI	none	Score	367
Exons	28763..29035, 28770..29015, 28964..29035, 29025..29075, 29069..29107, 29070..29123		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o4.tc	Method	TBLASTX:Cress
Start	28769	End	29171
GI	none	Score	299
Exons	28769..29011, 28770..29012, 29052..29108, 29063..29107, 29118..29171, 29141..29167		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o5.ts	Method	TBLASTX:Soybean
Start	28769	End	29183
GI	none	Score	310
Exons	28769..29011, 28770..29012, 29070..29126, 29109..29183		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o7.tc	Method	TBLASTX:Cress
Start	30402	End	30599
GI	none	Score	217
Exons	30402..30599, 30444..30491, 30479..30598		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-

Start	32168	End	40180
Name	OJ000350_22.0419.C7.o6.ts	Method	TBLASTX:Soybean
Start	30435	End	30701
GI	none	Score	342
Exons	30435..30701, 30482..30700		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o8.tm	Method	TBLASTX:Maize
Start	30860	End	31455
GI	none	Score	76
Exons	30860..30919, 30861..30914, 30866..30925, 31292..31438, 31300..31455, 31300..31452, 31302..31454		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o5.tc	Method	TBLASTX:Cress
Start	31297	End	31703
GI	none	Score	224
Exons	31297..31527, 31302..31499, 31612..31701, 31620..31703		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	31455	End	31972
GI	none	Score	855
Exons	31455..31967, 31456..31971, 31823..31972		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	31458	End	31997
GI	none	Score	723
Exons	31458..31544, 31459..31992, 31596..31997, 31841..31996		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	31704	End	31995
GI	none	Score	76
Exons	31704..31790, 31705..31995, 31707..31994		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o10.np	Method	AAT/NAP
Start	32168	End	36729
GI	4895186	Score	1299
Exons	32168..32223, 33158..33351, 33421..33896, 33994..34223, 34322..34454, 34549..34632, 34731..34806, 34893..34959, 36663..36729		
GI Descrip.	(AC007661) similar to axi 1 protein from Nicotiana tabacum		

[Arabidopsis thaliana]

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o4.gs	Method	GENSCAN
Start	33147	End	40180
GI	none	Score	.52
Exons	33147..33351, 33421..33712, 33778..33896, 33994..34223, 34322..34454, 35708..35793, 36269..36777, 36906..37192, 38689..38873, 39153..39193, 39280..39422, 40008..40180		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o9.ts	Method	TBLASTX:Soybean
Start	33168	End	33341
GI	none	Score	75
Exons	33168..33341, 33181..33282		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	33400	End	34193
GI	none	Score	122
Exons	33400..33582, 33410..33574, 33412..33633, 33420..33749, 33423..33677, 33740..33898, 33741..33899, 33993..34193, 33999..34190		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	33412	End	34193
GI	none	Score	290
Exons	33412..33723, 33420..33749, 33421..33738, 33824..33898, 33849..33899, 33993..34193, 34099..34182		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o7.tm	Method	TBLASTX:Maize
Start	33418	End	33898
GI	none	Score	69
Exons	33418..33588, 33420..33659, 33649..33735, 33654..33749, 33740..33898		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o5.gp	Method	AAT/GAP
Start	33449	End	33908
GI	uC-osflcyp055b03b1	Score	884
Exons	33449..33908		
GI Descrip.	'4895186/gb|AAD32773.1|AC007661_10 2.0e-69 (AC007661) putative growth regulator protein [Arabidopsis thaliana]'		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o6.gp	Method	AAT/GAP
Start	33830	End	34630
GI	29740_1.R1084	Score	901
Exons	33830..33896, 33994..34223, 34322..34454, 34549..34630		
GI Descrip.	'4895186/gb|AAD32773.1|AC007661_10 3.0e-50 (AC007661) putative growth regulator protein [Arabidopsis thaliana]'		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	34083	End	34793
GI	none	Score	139
Exons	34083..34235, 34089..34223, 34096..34224, 34322..34456, 34325..34456, 34546..34638, 34551..34637, 34730..34789, 34733..34792, 34737..34793		

Seq. No.	58483	Seq. ID	OJ000350_22.0419.C7
Gene No.	122159	Strand	-
Start	32168	End	40180
Name	OJ000350_22.0419.C7.o7.ts	Method	TBLASTX:Soybean
Start	34322	End	34959
GI	none	Score	85
Exons	34322..34456, 34329..34457, 34546..34638, 34551..34637, 34730..34792, 34730..34792, 34903..34959, 34915..34956		

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122160	Strand	-
Start	836	End	4625
Name	OJ000350_22.0419.C8.o1.gp	Method	AAT/GAP
Start	836	End	2991
GI	55400_1.R1084	Score	1884
Exons	836..1079, 1673..1884, 2458..2991		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122160	Strand	-
Start	836	End	4625
Name	OJ000350_22.0419.C8.o1.gs	Method	GENSCAN
Start	940	End	4625
GI	none	Score	.84
Exons	940..1079, 1673..1884, 2458..2738, 2767..3011, 3651..3677, 3828..3953, 4191..4197, 4542..4625		

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122160	Strand	-
Start	836	End	4625
Name	OJ000350_22.0419.C8.o1.np	Method	AAT/NAP
Start	945	End	2836
GI	6822058	Score	228
Exons	945..1079, 1673..1884, 2458..2641, 2767..2836		

GI Descrip. (AL132957) putative protein [Arabidopsis thaliana]

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122161	Strand	-
Start	5060	End	5901
Name	OJ000350_22.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	1680	End	2798
GI	none	Score	151
Exons	1680..1886, 1680..1886, 1681..1887, 1709..1903, 2457..2627, 2458..2595, 2538..2651, 2760..2798		

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122161	Strand	-
Start	5060	End	5901
Name	OJ000350_22.0419.C8.o2.gs	Method	GENSCAN
Start	5060	End	5797
GI	none	Score	.88
Exons	5060..5797		

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122161	Strand	-
Start	5060	End	5901
Name	OJ000350_22.0419.C8.o2.np	Method	AAT/NAP
Start	5228	End	5901
GI	6822059	Score	509
Exons	5228..5901		

GI Descrip. (AL132957) Machado-Joseph disease MJD1a-like protein [Arabidopsis thaliana]

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122161	Strand	-
Start	5060	End	5901
Name	OJ000350_22.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	5335	End	5708
GI	none	Score	454
Exons	5335..5433, 5336..5698, 5349..5708, 5409..5699		

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122161	Strand	-
Start	5060	End	5901
Name	OJ000350_22.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	5552	End	5833
GI	none	Score	262
Exons	5552..5833, 5556..5810		

Seq. No.	58484	Seq. ID	OJ000350_22.0419.C8
Gene No.	122161	Strand	-
Start	5060	End	5901
Name	OJ000350_22.0419.C8.o2.gp	Method	AAT/GAP
Start	5727	End	5800
GI	426168	Score	112
Exons	5727..5800		

GI Descrip. 2262199 1.0e-08 (U64822) josephin MJD1 [Homo sapiens]

Seq. No.	58485	Seq. ID	OJ000350_22.0419.C9
Gene No.	122162	Strand	-
Start	888	End	3202

Name	OJ000350_22.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	856	End	1148
GI	none	Score	81
Exons	856..930, 888..935, 888..953, 987..1148, 1045..1125		

Seq. No.	58485	Seq. ID	OJ000350_22.0419.C9
Gene No.	122162	Strand	-
Start	888	End	3202
Name	OJ000350_22.0419.C9.o1.gp	Method	AAT/GAP
Start	888	End	1215
GI	426168	Score	599
Exons	888..1215		
GI Descrip.	2262199 1.0e-08 (U64822) josephin MJD1 [Homo sapiens]		

Seq. No.	58485	Seq. ID	OJ000350_22.0419.C9
Gene No.	122162	Strand	-
Start	888	End	3202
Name	OJ000350_22.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	888	End	1145
GI	none	Score	53
Exons	888..929, 889..924, 993..1145, 1045..1125		

Seq. No.	58485	Seq. ID	OJ000350_22.0419.C9
Gene No.	122162	Strand	-
Start	888	End	3202
Name	OJ000350_22.0419.C9.o1.gs	Method	GENSCAN
Start	891	End	3202
GI	none	Score	.64
Exons	891..1064, 1233..1334, 3140..3202		

Seq. No.	58485	Seq. ID	OJ000350_22.0419.C9
Gene No.	122162	Strand	-
Start	888	End	3202
Name	OJ000350_22.0419.C9.o1.np	Method	AAT/NAP
Start	891	End	1154
GI	6822059	Score	266
Exons	891..1154		
GI Descrip.	(AL132957) Machado-Joseph disease MJD1a-like protein [Arabidopsis thaliana]		

Seq. No.	58485	Seq. ID	OJ000350_22.0419.C9
Gene No.	122162	Strand	-
Start	888	End	3202
Name	OJ000350_22.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	909	End	1142
GI	none	Score	90
Exons	909..935, 987..1142, 1045..1125		

Seq. No.	58486	Seq. ID	OJ000350_22.0419.C10
Gene No.	122163	Strand	+
Start	3591	End	3749
Name	OJ000350_22.0419.C10.o2.gs	Method	GENSCAN
Start	3591	End	3718
GI	none	Score	.47
Exons	3591..3718		

Seq. No.	58486	Seq. ID	OJ000350_22.0419.C10

Gene No.	122163	Strand	+
Start	3591	End	3749
Name	OJ000350_22.0419.C10.o1.np	Method	AAT/NAP
Start	3594	End	3749
GI	4895180	Score	102
Exons	3594..3749		
GI Descrip.	(AC007661) 3-oxo-5-alpha-steroid 4-dehydrogenase [Arabidopsis thaliana]		

Seq. No.	58486	Seq. ID	OJ000350_22.0419.C10
Gene No.	122164	Strand	-
Start	1345	End	2566
Name	OJ000350_22.0419.C10.o1.gs	Method	GENSCAN
Start	1345	End	2566
GI	none	Score	.71
Exons	1345..1511, 2335..2566		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122165	Strand	+
Start	1	End	502
Name	OJ000350_22.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	422
GI	4895180	Score	322
Exons	1..422		
GI Descrip.	(AC007661) 3-oxo-5-alpha-steroid 4-dehydrogenase [Arabidopsis thaliana]		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122165	Strand	+
Start	1	End	502
Name	OJ000350_22.0419.C11.o1.gs	Method	GENSCAN
Start	56	End	502
GI	none	Score	.5
Exons	56..502		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122166	Strand	-
Start	185	End	575
Name	OJ000350_22.0419.C11.o1.gp	Method	AAT/GAP
Start	185	End	575
GI	34732_1.R1084	Score	728
Exons	185..575		
GI Descrip.	'3877047/emb|CAA92173.1| 1.0e-15 (Z68116) Similarity to Human 3-oxo-5-alpha-steroid 4-dehydrogenase protein (PIR Acc. No. A35856) [Caenorhabditis elegans]'		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	92	End	425
GI	none	Score	383
Exons	92..412, 93..425		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989

Name	OJ000350_22.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	171	End	431
GI	none	Score	306
Exons	171..431, 174..278, 305..412		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o2.gs	Method	GENSCAN
Start	2194	End	3784
GI	none	Score	.93
Exons	2194..2513, 2885..2994, 3146..3226, 3594..3784		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o2.gp	Method	AAT/GAP
Start	2798	End	3785
GI	2423_1.R1084	Score	1149
Exons	2798..3226, 3594..3785		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	2975	End	3786
GI	none	Score	45
Exons	2975..3049, 3094..3228, 3098..3229, 3107..3229, 3593..3784, 3594..3785, 3594..3785, 3595..3786		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	3095	End	3662
GI	none	Score	117
Exons	3095..3229, 3097..3228, 3100..3258, 3593..3661, 3594..3662		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o2.np	Method	AAT/NAP
Start	3103	End	3989
GI	6522578	Score	420
Exons	3103..3226, 3594..3784, 3946..3989		
GI Descrip.	(AL133292) starch phosphorylase H (cytosolic form)-like protein [Arabidopsis thaliana]		

Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	3121	End	3789
GI	none	Score	112

Exons	3121..3228, 3122..3226, 3126..3230, 3127..3258, 3490..3555, 3593..3784, 3597..3788, 3600..3785, 3601..3789		
Seq. No.	58487	Seq. ID	OJ000350_22.0419.C11
Gene No.	122167	Strand	-
Start	2194	End	3989
Name	OJ000350_22.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	3593	End	3787
GI	none	Score	144
Exons	3593..3787, 3600..3785		
Seq. No.	58488	Seq. ID	OJ000350_22.0419.C13
Gene No.	122168	Strand	+
Start	1	End	992
Name	OJ000350_22.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	992
GI	7340881	Score	86
Exons	1..237, 343..417, 975..992		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		
Seq. No.	58488	Seq. ID	OJ000350_22.0419.C13
Gene No.	122168	Strand	+
Start	1	End	992
Name	OJ000350_22.0419.C13.o1.gp	Method	AAT/GAP
Start	96	End	306
GI	1631463	Score	304
Exons	96..306		
GI Descrip.	4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		
Seq. No.	58488	Seq. ID	OJ000350_22.0419.C13
Gene No.	122168	Strand	+
Start	1	End	992
Name	OJ000350_22.0419.C13.o2.np	Method	AAT/NAP
Start	376	End	992
GI	6907089	Score	651
Exons	376..865, 969..992		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	58488	Seq. ID	OJ000350_22.0419.C13
Gene No.	122169	Strand	-
Start	78	End	898
Name	OJ000350_22.0419.C13.o1.gs	Method	GENSCAN
Start	78	End	898
GI	none	Score	.47
Exons	78..163, 299..580, 856..898		
Seq. No.	58489	Seq. ID	OJ000350_22.0419.C15
Gene No.	122170	Strand	+
Start	1	End	3328
Name	OJ000350_22.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	3014
GI	6539581	Score	649
Exons	1..76, 629..790, 940..1570, 1685..2137, 2219..2502, 2606..3014		
GI Descrip.	(AP000837) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]		

Seq. No.	58489	Seq. ID	OJ000350_22.0419.C15
Gene No.	122170	Strand	+
Start	1	End	3328
Name	OJ000350_22.0419.C15.o1.gs	Method	GENSCAN
Start	402	End	3328
GI	none	Score	.83
Exons	402..476, 570..786, 880..1123, 1685..1833, 1977..2008, 2055..2142, 2606..3328		

Seq. No.	58489	Seq. ID	OJ000350_22.0419.C15
Gene No.	122170	Strand	+
Start	1	End	3328
Name	OJ000350_22.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	1268	End	2716
GI	none	Score	84
Exons	1268..1327, 1406..1432, 2227..2331, 2371..2511, 2379..2504, 2597..2716		

Seq. No.	58489	Seq. ID	OJ000350_22.0419.C15
Gene No.	122170	Strand	+
Start	1	End	3328
Name	OJ000350_22.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1346	End	2004
GI	none	Score	132
Exons	1346..1456, 1360..1458, 1363..1464, 1461..1568, 1462..1569, 1684..2004		

Seq. No.	58489	Seq. ID	OJ000350_22.0419.C15
Gene No.	122170	Strand	+
Start	1	End	3328
Name	OJ000350_22.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1376	End	2115
GI	none	Score	61
Exons	1376..1456, 1462..1569, 1684..1794, 1834..2115		

Seq. No.	58489	Seq. ID	OJ000350_22.0419.C15
Gene No.	122170	Strand	+
Start	1	End	3328
Name	OJ000350_22.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	1498	End	2043
GI	none	Score	62
Exons	1498..1569, 1684..2043		

Seq. No.	58490	Seq. ID	OJ000350_22.0419.C16
Gene No.	122171	Strand	-
Start	26	End	3821
Name	OJ000350_22.0419.C16.o1.gs	Method	GENSCAN
Start	26	End	3821
GI	none	Score	.8
Exons	26..350, 465..662, 715..879, 955..1719, 2655..2690, 2760..2890, 2947..3096, 3773..3821		

Seq. No.	58490	Seq. ID	OJ000350_22.0419.C16
Gene No.	122172	Strand	-
Start	5315	End	5894
Name	OJ000350_22.0419.C16.o2.gs	Method	GENSCAN

Start	5315	End	5894
GI	none	Score	.43
Exons	5315..5437, 5566..5834, 5846..5894		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122173	Strand	+
Start	2119	End	8780
Name	OJ000350_22.0419.C17.o1.np	Method	AAT/NAP
Start	2119	End	4798
GI	7460053	Score	49
Exons	2119..2275, 2703..2808, 2910..3268, 3503..3644, 4734..4798		
GI Descrip.	hypothetical protein T5I7.17 - Arabidopsis thaliana gi|2088640|gb|AAB95272.1| (AF002109) unknown protein [Arabidopsis thaliana]		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122173	Strand	+
Start	2119	End	8780
Name	OJ000350_22.0419.C17.o1.gp	Method	AAT/GAP
Start	2569	End	2837
GI	uC-osf1M202080h07b1	Score	463
Exons	2569..2837		
GI Descrip.	'4895190/gb|AAD32777.1|AC007661_14 2.0e-58 (AC007661) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122173	Strand	+
Start	2119	End	8780
Name	OJ000350_22.0419.C17.o1.gs	Method	GENSCAN
Start	2613	End	8780
GI	none	Score	.9
Exons	2613..2816, 2910..3260, 3353..3644, 3742..3849, 3936..4042, 5141..5314, 6000..6111, 8713..8780		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122174	Strand	+
Start	15045	End	19251
Name	OJ000350_22.0419.C17.o2.np	Method	AAT/NAP
Start	15045	End	19248
GI	4895190	Score	756
Exons	15045..15077, 15154..15243, 16845..16931, 17025..17093, 17722..17802, 17891..17962, 18064..18123, 18212..18312, 18473..18568, 18644..18690, 18773..18828, 18877..18933, 19171..19248		
GI Descrip.	(AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122174	Strand	+
Start	15045	End	19251
Name	OJ000350_22.0419.C17.o4.gs	Method	GENSCAN
Start	15045	End	19251
GI	none	Score	.91
Exons	15045..15077, 15154..15243, 16845..16931, 17025..17093, 17891..17962, 18064..18124, 18210..18312, 18473..18568, 18644..18690, 18812..18933, 19171..19251		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17

Gene No.	122174	Strand	+
Start	15045	End	19251
Name	OJ000350_22.0419.C17.o2.gp	Method	AAT/GAP
Start	16840	End	18292
GI	2312423	Score	769
Exons	16840..16931, 17025..17093, 17722..17802, 17891..17962, 18064..18124, 18210..18292		
GI Descrip.	4895190/gb|AAD32777.1|AC007661_14 2.0e-58 (AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122175	Strand	-
Start	10336	End	10992
Name	OJ000350_22.0419.C17.o2.gs	Method	GENSCAN
Start	10336	End	10992
GI	none	Score	.83
Exons	10336..10473, 10843..10992		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122176	Strand	-
Start	12294	End	13154
Name	OJ000350_22.0419.C17.o3.gs	Method	GENSCAN
Start	12294	End	13154
GI	none	Score	.57
Exons	12294..12422, 13107..13154		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o4.tm	Method	TBLASTX:Maize
Start	2649	End	3167
GI	none	Score	174
Exons	2649..2801, 2649..2783, 2912..2992, 2913..3167, 3059..3100		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o6.tm	Method	TBLASTX:Maize
Start	3467	End	3793
GI	none	Score	36
Exons	3467..3505, 3493..3513, 3508..3639, 3509..3640, 3738..3791, 3740..3793		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	15054	End	18915
GI	none	Score	46
Exons	15054..15092, 15151..15243, 16841..16948, 16845..16931, 17024..17077, 17025..17078, 17722..17808, 17750..17803, 17875..17961, 17906..17962, 18061..18123, 18212..18313, 18229..18327, 18471..18569, 18645..18686, 18772..18837, 18856..18915		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-

Start	21155	End	24061
Name	OJ000350_22.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	16869	End	18312
GI	none	Score	37
Exons	16869..16913, 17007..17069, 17732..17800, 17743..17799, 17899..17961, 17906..17962, 18057..18125, 18061..18123, 18158..18304, 18211..18312, 18212..18307		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o5.tm	Method	TBLASTX:Maize
Start	18471	End	18969
GI	none	Score	149
Exons	18471..18569, 18471..18578, 18488..18595, 18644..18694, 18645..18689, 18705..18743, 18762..18815, 18770..18835, 18772..18870, 18835..18969, 18888..18941		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o3.np	Method	AAT/NAP
Start	20451	End	24061
GI	6063554	Score	203
Exons	20451..20623, 21772..22019, 24025..24061		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o5.gs	Method	GENSCAN
Start	21155	End	22276
GI	none	Score	.82
Exons	21155..21271, 21638..21730, 21784..22042, 22047..22276		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o6.gs	Method	GENSCAN
Start	22790	End	24031
GI	none	Score	.56
Exons	22790..24031		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o4.np	Method	AAT/NAP
Start	22793	End	24061
GI	6983860	Score	2177
Exons	22793..24061		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-

Start	21155	End	24061
Name	OJ000350_22.0419.C17.o3.tw	Method	TBLASTX:Wheat
Start	22838	End	23171
GI	none	Score	136
Exons	22838..23170, 22890..23171		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	23033	End	23618
GI	none	Score	113
Exons	23033..23458, 23034..23240, 23298..23459, 23456..23617, 23463..23618		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	23171	End	23797
GI	none	Score	51
Exons	23171..23797, 23172..23240, 23213..23626, 23286..23795		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	23666	End	23958
GI	none	Score	299
Exons	23666..23956, 23670..23957, 23670..23957, 23671..23958		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	23756	End	24016
GI	none	Score	192
Exons	23756..24016, 23757..24005		

Seq. No.	58491	Seq. ID	OJ000350_22.0419.C17
Gene No.	122177	Strand	-
Start	21155	End	24061
Name	OJ000350_22.0419.C17.o2.tw	Method	TBLASTX:Wheat
Start	23804	End	24059
GI	none	Score	260
Exons	23804..24058, 23808..24059, 23808..24059		

Seq. No.	58492	Seq. ID	OJ000350_22.0419.C20
Gene No.	122178	Strand	+
Start	53	End	1262
Name	OJ000350_22.0419.C20.o1.gs	Method	GENSCAN
Start	53	End	1231
GI	none	Score	.92
Exons	53..61, 814..1231		

Seq. No.	58492	Seq. ID	OJ000350_22.0419.C20
Gene No.	122178	Strand	+

Start	53	End	1262
Name	OJ000350_22.0419.C20.o1.np	Method	AAT/NAP
Start	814	End	1262
GI	6983861	Score	771
Exons	814..1262		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	58493	Seq. ID	OJ000350_22.0419.C21
Gene No.	122179	Strand	+
Start	175	End	1363
Name	OJ000350_22.0419.C21.o1.gs	Method	GENSCAN
Start	175	End	1270
GI	none	Score	.76
Exons	175..521, 546..723, 820..1270		

Seq. No.	58493	Seq. ID	OJ000350_22.0419.C21
Gene No.	122179	Strand	+
Start	175	End	1363
Name	OJ000350_22.0419.C21.o1.np	Method	AAT/NAP
Start	175	End	1363
GI	6983860	Score	1755
Exons	175..1363		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	58493	Seq. ID	OJ000350_22.0419.C21
Gene No.	122179	Strand	+
Start	175	End	1363
Name	OJ000350_22.0419.C21.o2.tw	Method	TBLASTX:Wheat
Start	336	End	534
GI	none	Score	208
Exons	336..533, 337..534, 361..534		

Seq. No.	58493	Seq. ID	OJ000350_22.0419.C21
Gene No.	122179	Strand	+
Start	175	End	1363
Name	OJ000350_22.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	583	End	936
GI	none	Score	296
Exons	583..780, 586..936		

Seq. No.	58493	Seq. ID	OJ000350_22.0419.C21
Gene No.	122179	Strand	+
Start	175	End	1363
Name	OJ000350_22.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	586	End	924
GI	none	Score	247
Exons	586..924, 586..882		

Seq. No.	58493	Seq. ID	OJ000350_22.0419.C21
Gene No.	122179	Strand	+
Start	175	End	1363
Name	OJ000350_22.0419.C21.o3.tw	Method	TBLASTX:Wheat
Start	1102	End	1353
GI	none	Score	89
Exons	1102..1224, 1116..1157, 1210..1353, 1251..1352		

Seq. No.	58494	Seq. ID	OJ000350_22.0419.C22
Gene No.	122180	Strand	-
Start	117	End	753
Name	OJ000350_22.0419.C22.o1.gs	Method	GENSCAN
Start	117	End	753
GI	none	Score	.93
Exons	117..373, 463..561, 640..753		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o1.gp	Method	AAT/GAP
Start	1	End	1733
GI	342_1.R1084	Score	3159
Exons	1..1733		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1672
GI	6742729	Score	2647
Exons	1..1672		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o3.tw	Method	TBLASTX:Wheat
Start	2	End	289
GI	none	Score	130
Exons	2..79, 3..80, 60..284, 80..289, 81..284, 83..289		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	3	End	323
GI	none	Score	128
Exons	3..119, 129..323		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	153	End	395
GI	none	Score	216
Exons	153..395		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	428	End	838

GI	none	Score	87
Exons	428..478, 429..491, 497..679, 501..719, 508..720, 517..720, 747..836, 752..838, 753..836		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	839	End	1727
GI	none	Score	863
Exons	839..1726, 840..1727		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	882	End	1196
GI	none	Score	300
Exons	882..1196, 893..1168		

Seq. No.	58495	Seq. ID	OJ000320_22.0419.C1
Gene No.	122181	Strand	+
Start	1	End	1733
Name	OJ000320_22.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	1123	End	1575
GI	none	Score	175
Exons	1123..1305, 1127..1564, 1127..1570, 1131..1574, 1324..1575, 1425..1574		

Seq. No.	58496	Seq. ID	OJ000320_22.0419.C2
Gene No.	122182	Strand	+
Start	222	End	5323
Name	OJ000320_22.0419.C2.o1.gs	Method	GENSCAN
Start	222	End	5323
GI	none	Score	.91
Exons	222..728, 1649..2692, 2719..2904, 2950..3069, 3144..3285, 3395..3540, 3542..4227, 4337..4510, 4607..4717, 4802..4826, 4969..5067, 5147..5323		

Seq. No.	58496	Seq. ID	OJ000320_22.0419.C2
Gene No.	122182	Strand	+
Start	222	End	5323
Name	OJ000320_22.0419.C2.o1.np	Method	AAT/NAP
Start	1634	End	3424
GI	4680204	Score	822
Exons	1634..3069, 3144..3424		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	58496	Seq. ID	OJ000320_22.0419.C2
Gene No.	122182	Strand	+
Start	222	End	5323
Name	OJ000320_22.0419.C2.o2.np	Method	AAT/NAP
Start	1634	End	5314
GI	4680204	Score	1023
Exons	1634..3069, 3144..4227, 4337..4510, 4607..4826, 5177..5314		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	58496	Seq. ID	OJ000320_22.0419.C2
Gene No.	122183	Strand	-
Start	735	End	5648
Name	OJ000320_22.0419.C2.o1.gp	Method	AAT/GAP
Start	735	End	5648
GI	LIB3477-003-P1-K1-E9	Score	158
Exons	735..773, 5580..5648		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	58496	Seq. ID	OJ000320_22.0419.C2
Gene No.	122183	Strand	-
Start	735	End	5648
Name	OJ000320_22.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	2277	End	2680
GI	none	Score	62
Exons	2277..2417, 2277..2387, 2279..2515, 2279..2428, 2380..2520, 2510..2680		

Seq. No.	58496	Seq. ID	OJ000320_22.0419.C2
Gene No.	122183	Strand	-
Start	735	End	5648
Name	OJ000320_22.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	4154	End	4676
GI	none	Score	63
Exons	4154..4234, 4323..4505, 4373..4498, 4605..4676		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3
Gene No.	122184	Strand	+
Start	42	End	599
Name	OJ000320_22.0419.C3.o1.gp	Method	AAT/GAP
Start	42	End	599
GI	21474_1.R1084	Score	252
Exons	42..185, 557..599		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3
Gene No.	122185	Strand	-
Start	19	End	2496
Name	OJ000320_22.0419.C3.o1.np	Method	AAT/NAP
Start	19	End	2496
GI	7106528	Score	73
Exons	19..144, 2381..2496		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3
Gene No.	122185	Strand	-
Start	19	End	2496
Name	OJ000320_22.0419.C3.o1.gs	Method	GENSCAN
Start	346	End	2029
GI	none	Score	.81
Exons	346..1029, 1037..1201, 1291..1798, 1800..2029		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3

Gene No.	122185	Strand	-
Start	19	End	2496
Name	OJ000320_22.0419.C3.o2.np	Method	AAT/NAP
Start	379	End	1823
GI	4539677	Score	942
Exons	379..933, 1037..1201, 1291..1823		
GI Descrip.	(AF061282) patatin-like protein [Sorghum bicolor]		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3
Gene No.	122185	Strand	-
Start	19	End	2496
Name	OJ000320_22.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	391	End	1746
GI	none	Score	72
Exons	391..612, 401..538, 547..840, 1022..1117, 1082..1180, 1288..1434, 1409..1435, 1456..1554, 1457..1543, 1555..1746, 1556..1612, 1697..1729		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3
Gene No.	122185	Strand	-
Start	19	End	2496
Name	OJ000320_22.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	400	End	1746
GI	none	Score	69
Exons	400..615, 413..562, 616..834, 616..849, 1022..1222, 1029..1202, 1282..1461, 1283..1441, 1303..1443, 1432..1584, 1474..1542, 1558..1680, 1558..1746		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3
Gene No.	122185	Strand	-
Start	19	End	2496
Name	OJ000320_22.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	445	End	840
GI	none	Score	82
Exons	445..615, 616..735, 745..840		

Seq. No.	58497	Seq. ID	OJ000320_22.0419.C3
Gene No.	122185	Strand	-
Start	19	End	2496
Name	OJ000320_22.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1016	End	1738
GI	none	Score	49
Exons	1016..1078, 1038..1079, 1109..1213, 1113..1178, 1282..1434, 1330..1431, 1415..1444, 1465..1554, 1558..1644, 1568..1612, 1691..1735, 1703..1738		

Seq. No.	58498	Seq. ID	OJ000320_22.0419.C4
Gene No.	122186	Strand	+
Start	1	End	884
Name	OJ000320_22.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	884
GI	342_1.R1084	Score	1087
Exons	1..33, 69..88, 171..268, 378..884		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	58499	Seq. ID	OJ000320_22.0419.C7

Gene No.	122187	Strand	+
Start	770	End	7742
Name	OJ000320_22.0419.C7.o1.gs	Method	GENSCAN
Start	770	End	7602
GI	none	Score	.63
Exons	770..847, 903..1079, 1286..1309, 2505..2612, 3151..3544, 4028..4175, 4328..4500, 4545..4667, 6628..7003, 7599..7602		

Seq. No.	58499	Seq. ID	OJ000320_22.0419.C7
Gene No.	122187	Strand	+
Start	770	End	7742
Name	OJ000320_22.0419.C7.o1.np	Method	AAT/NAP
Start	1612	End	7742
GI	7106516	Score	156
Exons	1612..1660, 2380..2558, 3112..3227, 4054..4115, 4413..4557, 7705..7742		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	58499	Seq. ID	OJ000320_22.0419.C7
Gene No.	122187	Strand	+
Start	770	End	7742
Name	OJ000320_22.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6848	End	6998
GI	none	Score	199
Exons	6848..6985, 6849..6998		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122188	Strand	+
Start	1840	End	1927
Name	OJ000320_22.0419.C8.o1.gp	Method	AAT/GAP
Start	1840	End	1927
GI	3760640	Score	101
Exons	1840..1927		
GI Descrip.	4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122189	Strand	+
Start	2573	End	4930
Name	OJ000320_22.0419.C8.o1.gs	Method	GENSCAN
Start	2573	End	4930
GI	none	Score	.45
Exons	2573..2656, 2670..2784, 2936..3302, 3737..3809, 4121..4930		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122190	Strand	+
Start	5058	End	6016
Name	OJ000320_22.0419.C8.o2.gs	Method	GENSCAN
Start	5058	End	6016
GI	none	Score	.99
Exons	5058..5483, 5564..6016		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122191	Strand	+
Start	6648	End	10949
Name	OJ000320_22.0419.C8.o3.gs	Method	GENSCAN
Start	6648	End	10949

GI	none	Score	.53
Exons	6648..6710, 8888..9022, 10027..10050, 10420..10711, 10903..10949		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122191	Strand	+
Start	6648	End	10949
Name	OJ000320_22.0419.C8.o2.gp	Method	AAT/GAP
Start	7256	End	7807
GI	4879016	Score	787
Exons	7256..7807		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122192	Strand	+
Start	21274	End	31889
Name	OJ000320_22.0419.C8.o6.gs	Method	GENSCAN
Start	21274	End	31889
GI	none	Score	.64
Exons	21274..21485, 25109..26675, 26806..27426, 28874..29047, 30645..30709, 31064..31134, 31777..31889		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122192	Strand	+
Start	21274	End	31889
Name	OJ000320_22.0419.C8.o3.np	Method	AAT/NAP
Start	28330	End	29271
GI	6466937	Score	317
Exons	28330..29271		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122193	Strand	+
Start	39989	End	40340
Name	OJ000320_22.0419.C8.o9.gs	Method	GENSCAN
Start	39989	End	40340
GI	none	Score	.49
Exons	39989..40118, 40267..40340		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122194	Strand	+
Start	40473	End	43099
Name	OJ000320_22.0419.C8.o6.np	Method	AAT/NAP
Start	40473	End	43099
GI	5091513	Score	537
Exons	40473..40501, 42766..43099		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122195	Strand	-
Start	1	End	1336
Name	OJ000320_22.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1336
GI	126669	Score	49
Exons	1..20, 1008..1336		

GI Descrip.	M PROTEIN, SEROTYPE 5 PRECURSOR gi|80041|pir||A28616 protein M5 precursor - Streptococcus pyogenes gi|153813 (M20374) 5 M protein [Streptococcus pyogenes]		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122196	Strand	-
Start	11425	End	16907
Name	OJ000320_22.0419.C8.o4.gs	Method	GENSCAN
Start	11425	End	16907
GI	none	Score	.43
Exons	11425..11470, 11514..11591, 12716..12813, 13287..13424, 14867..15037, 16902..16907		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122197	Strand	-
Start	18105	End	19596
Name	OJ000320_22.0419.C8.o5.gs	Method	GENSCAN
Start	18105	End	19596
GI	none	Score	.79
Exons	18105..18701, 18722..18944, 18987..19030, 19405..19596		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122198	Strand	-
Start	28614	End	33572
Name	OJ000320_22.0419.C8.o4.np	Method	AAT/NAP
Start	28614	End	33572
GI	6815097	Score	307
Exons	28614..28639, 31814..31873, 32859..33572		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122199	Strand	-
Start	40530	End	43099
Name	OJ000320_22.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	28388	End	28783
GI	none	Score	91
Exons	28388..28465, 28468..28545, 28616..28783		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122199	Strand	-
Start	40530	End	43099
Name	OJ000320_22.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	28501	End	29164
GI	none	Score	61
Exons	28501..28557, 28595..28807, 28805..28900, 28806..28910, 28982..29143, 28988..29164		

Seq. No.	58500	Seq. ID	OJ000320_22.0419.C8
Gene No.	122199	Strand	-
Start	40530	End	43099
Name	OJ000320_22.0419.C8.o5.np	Method	AAT/NAP
Start	40530	End	43099
GI	7106512	Score	1827
Exons	40530..40903, 40958..41968, 42038..42138, 43080..43099		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58501	Seq. ID	OJ000320_22.0419.C9
Gene No.	122200	Strand	+
Start	1	End	2358
Name	OJ000320_22.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2358
GI	7106512	Score	2152
Exons	1..977, 1439..2358		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58501	Seq. ID	OJ000320_22.0419.C9
Gene No.	122200	Strand	+
Start	1	End	2358
Name	OJ000320_22.0419.C9.o1.gs	Method	GENSCAN
Start	31	End	663
GI	none	Score	.62
Exons	31..663		

Seq. No.	58501	Seq. ID	OJ000320_22.0419.C9
Gene No.	122200	Strand	+
Start	1	End	2358
Name	OJ000320_22.0419.C9.o2.gs	Method	GENSCAN
Start	1504	End	2350
GI	none	Score	.73
Exons	1504..2350		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122201	Strand	+
Start	1	End	1189
Name	OJ000320_22.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	1189
GI	7106512	Score	1260
Exons	1..1089, 1170..1189		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122201	Strand	+
Start	1	End	1189
Name	OJ000320_22.0419.C10.o1.gs	Method	GENSCAN
Start	187	End	1178
GI	none	Score	.86
Exons	187..937, 991..1178		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122202	Strand	+
Start	2027	End	6443
Name	OJ000320_22.0419.C10.o3.np	Method	AAT/NAP
Start	2027	End	6443
GI	7486711	Score	1010
Exons	2027..2081, 4446..6443		
GI Descrip.	hypothetical protein F8M12.22 - Arabidopsis thaliana gi|3513745|gb|AAC33961.1| (AF080118) contains similarity to reverse trancriptase (Pfam: rvt.hmm, score: 42.57) [Arabidopsis thaliana]		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122203	Strand	-
Start	1528	End	1680
Name	OJ000320_22.0419.C10.o2.np	Method	AAT/NAP
Start	1528	End	1680
GI	7106513	Score	235
Exons	1528..1680		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122204	Strand	-
Start	3314	End	3584
Name	OJ000320_22.0419.C10.o1.gp	Method	AAT/GAP
Start	3314	End	3584
GI	3761181	Score	410
Exons	3314..3529, 3553..3584		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122205	Strand	
Start	5716	End	6192
Name	OJ000320_22.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	5716	End	6180
GI	none	Score	104
Exons	5716..5880, 5863..6180, 5920..6003, 6075..6116		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122205	Strand	
Start	5716	End	6192
Name	OJ000320_22.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	5761	End	6141
GI	none	Score	260
Exons	5761..5979, 5763..5852, 5917..5982, 5967..6119, 5973..6071, 5974..6141, 5974..6141		

Seq. No.	58502	Seq. ID	OJ000320_22.0419.C10
Gene No.	122205	Strand	
Start	5716	End	6192
Name	OJ000320_22.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	5905	End	6192
GI	none	Score	198
Exons	5905..6192		

Seq. No.	58503	Seq. ID	OJ000320_22.0419.C11
Gene No.	122206	Strand	+
Start	371	End	1294
Name	OJ000320_22.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	299	End	700
GI	none	Score	328
Exons	299..700, 307..687, 485..700		

Seq. No.	58503	Seq. ID	OJ000320_22.0419.C11
Gene No.	122206	Strand	+
Start	371	End	1294
Name	OJ000320_22.0419.C11.o1.gs	Method	GENSCAN
Start	371	End	1294

GI	none	Score	.74
Exons	371..1294		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122207	Strand	+
Start	1318	End	2190
Name	OJ000320_22.0419.C12.o1.gs	Method	GENSCAN
Start	1318	End	2190
GI	none	Score	.76
Exons	1318..2190		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122208	Strand	+
Start	2954	End	8170
Name	OJ000320_22.0419.C12.o2.gs	Method	GENSCAN
Start	2954	End	8170
GI	none	Score	.57
Exons	2954..3464, 3624..4189, 4707..4952, 5249..5427, 5884..6038, 6125..7111, 7131..7576, 7661..8170		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122208	Strand	+
Start	2954	End	8170
Name	OJ000320_22.0419.C12.o1.np	Method	AAT/NAP
Start	3002	End	4249
GI	6997177	Score	992
Exons	3002..4249		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122209	Strand	+
Start	18809	End	19333
Name	OJ000320_22.0419.C12.o5.gs	Method	GENSCAN
Start	18809	End	19333
GI	none	Score	.65
Exons	18809..18836, 19092..19333		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122210	Strand	-
Start	581	End	1590
Name	OJ000320_22.0419.C12.o1.gp	Method	AAT/GAP
Start	581	End	1590
GI	none	Score	983
Exons	581..850, 1231..1344, 1428..1590		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122211	Strand	-
Start	1676	End	2129
Name	OJ000320_22.0419.C12.o2.gp	Method	AAT/GAP
Start	1676	End	2129
GI	none	Score	885
Exons	1676..2129		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122212	Strand	-
Start	2172	End	2633
Name	OJ000320_22.0419.C12.o3.gp	Method	AAT/GAP

Start	2172	End	2633
GI	none	Score	881
Exons	2172..2633		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	3143	End	3799
GI	none	Score	354
Exons	3143..3598, 3143..3409, 3196..3573, 3602..3631, 3656..3706, 3707..3799		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	3143	End	3519
GI	none	Score	327
Exons	3143..3517, 3178..3519, 3197..3499, 3199..3519		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	3649	End	4063
GI	none	Score	207
Exons	3649..3816, 3650..3826, 3827..4063, 3829..4062		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	3803	End	4075
GI	none	Score	189
Exons	3803..3970, 3820..3969, 4010..4075, 4034..4072		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o3.tm	Method	TBLASTX:Maize
Start	5272	End	19233
GI	none	Score	194
Exons	5272..5424, 5273..5422, 19050..19232, 19076..19231, 19077..19232, 19108..19233		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o3.gs	Method	GENSCAN
Start	9718	End	10939
GI	none	Score	.79
Exons	9718..9895, 9961..10400, 10511..10939		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905

Name	OJ000320_22.0419.C12.o3.np	Method	AAT/NAP
Start	10151	End	16432
GI	477580	Score	37
Exons	10151..10243, 16303..16432		
GI Descrip.	merozoite protein Bb-1 - Babesia bovis (fragment)		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o4.gs	Method	GENSCAN
Start	11344	End	16746
GI	none	Score	.68
Exons	11344..12243, 12785..12889, 12987..13080, 13507..13616, 13945..14532, 14814..16462, 16701..16746		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o4.np	Method	AAT/NAP
Start	15937	End	20459
GI	6862925	Score	62
Exons	15937..16016, 19065..19205, 20437..20459		
GI Descrip.	(AC018907) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58504	Seq. ID	OJ000320_22.0419.C12
Gene No.	122213	Strand	-
Start	9718	End	20905
Name	OJ000320_22.0419.C12.o6.gs	Method	GENSCAN
Start	20021	End	20905
GI	none	Score	.84
Exons	20021..20164, 20843..20905		

Seq. No.	58505	Seq. ID	OJ000320_22.0419.C13
Gene No.	122214	Strand	+
Start	4148	End	5174
Name	OJ000320_22.0419.C13.o1.np	Method	AAT/NAP
Start	4148	End	5174
GI	6907086	Score	1056
Exons	4148..4924, 4985..5174		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58505	Seq. ID	OJ000320_22.0419.C13
Gene No.	122215	Strand	-
Start	2182	End	2746
Name	OJ000320_22.0419.C13.o2.gp	Method	AAT/GAP
Start	2182	End	2746
GI	38782_1.R1084	Score	815
Exons	2182..2204, 2256..2746		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	58505	Seq. ID	OJ000320_22.0419.C13
Gene No.	122215	Strand	-
Start	2182	End	2746
Name	OJ000320_22.0419.C13.o1.gp	Method	AAT/GAP
Start	2240	End	2746
GI	38782_1.R1084	Score	812

Exons	2240..2746		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	58506	Seq. ID	OJ000320_22.0419.C14
Gene No.	122216	Strand	+
Start	1	End	493
Name	OJ000320_22.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	443
GI	6983857	Score	244
Exons	1..443		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		
Seq. No.	58506	Seq. ID	OJ000320_22.0419.C14
Gene No.	122216	Strand	+
Start	1	End	493
Name	OJ000320_22.0419.C14.o1.gs	Method	GENSCAN
Start	102	End	493
GI	none	Score	.5
Exons	102..493		
Seq. No.	58506	Seq. ID	OJ000320_22.0419.C14
Gene No.	122217	Strand	+
Start	2437	End	2797
Name	OJ000320_22.0419.C14.o3.np	Method	AAT/NAP
Start	2437	End	2797
GI	7510076	Score	81
Exons	2437..2797		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		
Seq. No.	58506	Seq. ID	OJ000320_22.0419.C14
Gene No.	122218	Strand	-
Start	1	End	1608
Name	OJ000320_22.0419.C14.o2.np	Method	AAT/NAP
Start	1	End	1608
GI	6721547	Score	75
Exons	1..86, 1511..1608		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		
Seq. No.	58506	Seq. ID	OJ000320_22.0419.C14
Gene No.	122219	Strand	-
Start	3304	End	4578
Name	OJ000320_22.0419.C14.o2.gs	Method	GENSCAN
Start	3304	End	4578
GI	none	Score	.5
Exons	3304..3723, 4480..4578		
Seq. No.	58507	Seq. ID	OJ000320_22.0419.C15
Gene No.	122220	Strand	+
Start	162	End	1305
Name	OJ000320_22.0419.C15.o1.gp	Method	AAT/GAP
Start	162	End	751
GI	2310235	Score	303
Exons	162..199, 612..751		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	58507	Seq. ID	OJ000320_22.0419.C15
Gene No.	122220	Strand	+
Start	162	End	1305
Name	OJ000320_22.0419.C15.o1.gs	Method	GENSCAN
Start	612	End	1278
GI	none	Score	.64
Exons	612..1278		

Seq. No.	58507	Seq. ID	OJ000320_22.0419.C15
Gene No.	122220	Strand	+
Start	162	End	1305
Name	OJ000320_22.0419.C15.o1.np	Method	AAT/NAP
Start	613	End	1305
GI	4680203	Score	715
Exons	613..1305		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	58507	Seq. ID	OJ000320_22.0419.C15
Gene No.	122220	Strand	+
Start	162	End	1305
Name	OJ000320_22.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	963	End	1304
GI	none	Score	97
Exons	963..1070, 1053..1304, 1054..1278, 1061..1303		

Seq. No.	58507	Seq. ID	OJ000320_22.0419.C15
Gene No.	122220	Strand	+
Start	162	End	1305
Name	OJ000320_22.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1086	End	1304
GI	none	Score	238
Exons	1086..1304, 1094..1300		

Seq. No.	58508	Seq. ID	OJ000330_22.0419.C7
Gene No.	122221	Strand	-
Start	377	End	632
Name	OJ000330_22.0419.C7.o1.gs	Method	GENSCAN
Start	377	End	632
GI	none	Score	.58
Exons	377..632		

Seq. No.	58509	Seq. ID	OJ000330_22.0419.C8
Gene No.	122222	Strand	+
Start	1871	End	3161
Name	OJ000330_22.0419.C8.o1.gs	Method	GENSCAN
Start	1871	End	3161
GI	none	Score	.65
Exons	1871..2141, 2740..2919, 2954..3161		

Seq. No.	58510	Seq. ID	OJ000330_22.0419.C12
Gene No.	122223	Strand	+
Start	182	End	309
Name	OJ000330_22.0419.C12.o1.gs	Method	GENSCAN
Start	182	End	309
GI	none	Score	.95
Exons	182..309		

Seq. No.	58511	Seq. ID	OJ000330_22.0419.C16
Gene No.	122224	Strand	-
Start	291	End	2049
Name	OJ000330_22.0419.C16.o1.np	Method	AAT/NAP
Start	81	End	1687
GI	3128224	Score	109
Exons	81..110, 1365..1687		
GI Descrip.	(AC004077) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	58511	Seq. ID	OJ000330_22.0419.C16
Gene No.	122224	Strand	-
Start	291	End	2049
Name	OJ000330_22.0419.C16.o1.gs	Method	GENSCAN
Start	291	End	2049
GI	none	Score	.77
Exons	291..467, 1365..1727, 1883..2049		

Seq. No.	58512	Seq. ID	OJ000330_22.0419.C21
Gene No.	122225	Strand	+
Start	170	End	1471
Name	OJ000330_22.0419.C21.o1.gs	Method	GENSCAN
Start	170	End	1471
GI	none	Score	.6
Exons	170..500, 1305..1471		

Seq. No.	58513	Seq. ID	OJ000330_22.0419.C26
Gene No.	122226	Strand	+
Start	1905	End	2277
Name	OJ000330_22.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	1899	End	2277
GI	none	Score	94
Exons	1899..1997, 1902..1997, 1904..2002, 2068..2160, 2068..2160, 2224..2277		

Seq. No.	58513	Seq. ID	OJ000330_22.0419.C26
Gene No.	122226	Strand	+
Start	1905	End	2277
Name	OJ000330_22.0419.C26.o1.gs	Method	GENSCAN
Start	1905	End	2169
GI	none	Score	.54
Exons	1905..1997, 2092..2169		

Seq. No.	58514	Seq. ID	OJ000330_22.0419.C30
Gene No.	122227	Strand	-
Start	505	End	843
Name	OJ000330_22.0419.C30.o1.gs	Method	GENSCAN
Start	505	End	843
GI	none	Score	.47
Exons	505..843		

Seq. No.	58515	Seq. ID	OJ000330_22.0419.C32
Gene No.	122228	Strand	+
Start	618	End	1019
Name	OJ000330_22.0419.C32.o1.gs	Method	GENSCAN
Start	618	End	1019
GI	none	Score	.79
Exons	618..718, 758..1019		

Seq. No.	58516	Seq. ID	OJ000330_22.0419.C35
Gene No.	122229	Strand	+
Start	489	End	1213
Name	OJ000330_22.0419.C35.o1.np	Method	AAT/NAP
Start	489	End	1213
GI	7523502	Score	186
Exons	489..585, 898..1213		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58517	Seq. ID	OJ000330_22.0419.C40
Gene No.	122230	Strand	+
Start	167	End	234
Name	OJ000330_22.0419.C40.o1.gs	Method	GENSCAN
Start	167	End	234
GI	none	Score	.4
Exons	167..234		

Seq. No.	58517	Seq. ID	OJ000330_22.0419.C40
Gene No.	122231	Strand	-
Start	1	End	213
Name	OJ000330_22.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	213
GI	7363272	Score	82
Exons	1..213		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	58518	Seq. ID	OJ000330_22.0419.C42
Gene No.	122232	Strand	+
Start	295	End	421
Name	OJ000330_22.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	199	End	383
GI	none	Score	275
Exons	199..363, 200..367, 201..383, 201..377		

Seq. No.	58518	Seq. ID	OJ000330_22.0419.C42
Gene No.	122232	Strand	+
Start	295	End	421
Name	OJ000330_22.0419.C42.o1.np	Method	AAT/NAP
Start	295	End	421
GI	7524724	Score	98
Exons	295..421		
GI Descrip.	ORF42f gi|7484523|pir||T07557 hypothetical protein 42f - Japanese black pine chloroplast gi|1262718|dbj|BAA04433.1| (D17510) ORF42f [Pinus thunbergii]		

Seq. No.	58519	Seq. ID	OJ000330_22.0419.C43
Gene No.	122233	Strand	-
Start	847	End	1272
Name	OJ000330_22.0419.C43.o1.gs	Method	GENSCAN
Start	847	End	1272
GI	none	Score	.78
Exons	847..868, 1202..1272		

Seq. No.	58520	Seq. ID	OJ000330_22.0419.C44
Gene No.	122234	Strand	+
Start	98	End	590

Name	OJ000330_22.0419.C44.o1.gs	Method	GENSCAN
Start	98	End	590
GI	none	Score	.8
Exons	98..590		

Seq. No.	58521	Seq. ID	OJ000330_22.0419.C45
Gene No.	122235	Strand	+
Start	211	End	303
Name	OJ000330_22.0419.C45.o1.gs	Method	GENSCAN
Start	211	End	303
GI	none	Score	.46
Exons	211..303		

Seq. No.	58522	Seq. ID	OJ000330_22.0419.C46
Gene No.	122236	Strand	+
Start	310	End	465
Name	OJ000330_22.0419.C46.o1.np	Method	AAT/NAP
Start	310	End	465
GI	7363271	Score	124
Exons	310..465		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	58522	Seq. ID	OJ000330_22.0419.C46
Gene No.	122237	Strand	+
Start	373	End	509
Name	OJ000330_22.0419.C46.o1.gs	Method	GENSCAN
Start	373	End	509
GI	none	Score	.52
Exons	373..509		

Seq. No.	58523	Seq. ID	OJ000330_22.0419.C50
Gene No.	122238	Strand	-
Start	583	End	1681
Name	OJ000330_22.0419.C50.o1.gs	Method	GENSCAN
Start	583	End	1681
GI	none	Score	.5
Exons	583..628, 1024..1061, 1140..1334, 1461..1681		

Seq. No.	58524	Seq. ID	OJ000330_22.0419.C51
Gene No.	122239	Strand	+
Start	1424	End	1859
Name	OJ000330_22.0419.C51.o1.gs	Method	GENSCAN
Start	1424	End	1859
GI	none	Score	.83
Exons	1424..1591, 1678..1859		

Seq. No.	58525	Seq. ID	OJ000330_22.0419.C53
Gene No.	122240	Strand	+
Start	1	End	849
Name	OJ000330_22.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	849
GI	5739323	Score	127
Exons	1..35, 72..262, 828..849		
GI Descrip.	(AF166121) Cf2/Cf5 disease resistance protein homolog [Hordeum vulgare]		

Seq. No.	58526	Seq. ID	OJ000330_22.0419.C54

Gene No.	122241	Strand	+
Start	194	End	2668
Name	OJ000330_22.0419.C54.o1.gs	Method	GENSCAN
Start	194	End	2535
GI	none	Score	.65
Exons	194..342, 402..452, 1942..2535		

Seq. No.	58526	Seq. ID	OJ000330_22.0419.C54
Gene No.	122241	Strand	+
Start	194	End	2668
Name	OJ000330_22.0419.C54.o1.gp	Method	AAT/GAP
Start	1332	End	1849
GI	73837_1.R1084	Score	820
Exons	1332..1444, 1518..1849		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-149 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	58526	Seq. ID	OJ000330_22.0419.C54
Gene No.	122241	Strand	+
Start	194	End	2668
Name	OJ000330_22.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	1679	End	2598
GI	none	Score	56
Exons	1679..1708, 1803..1856, 1807..1851, 1954..1995, 1968..2003, 2154..2204, 2164..2202, 2218..2370, 2235..2330, 2460..2588, 2461..2598		

Seq. No.	58526	Seq. ID	OJ000330_22.0419.C54
Gene No.	122241	Strand	+
Start	194	End	2668
Name	OJ000330_22.0419.C54.o1.ts	Method	TBLASTX:Soybean
Start	2236	End	2598
GI	none	Score	59
Exons	2236..2322, 2463..2588, 2467..2598		

Seq. No.	58526	Seq. ID	OJ000330_22.0419.C54
Gene No.	122241	Strand	+
Start	194	End	2668
Name	OJ000330_22.0419.C54.o1.np	Method	AAT/NAP
Start	2247	End	2668
GI	6587871	Score	140
Exons	2247..2367, 2458..2668		
GI Descrip.	(AC012680) unknown protein [Arabidopsis thaliana]		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122242	Strand	+
Start	1	End	2384
Name	OJ000330_22.0419.C55.o1.np	Method	AAT/NAP
Start	1	End	2180
GI	6587871	Score	592
Exons	1..44, 161..323, 461..607, 1661..2180		
GI Descrip.	(AC012680) unknown protein [Arabidopsis thaliana]		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122242	Strand	+
Start	1	End	2384
Name	OJ000330_22.0419.C55.o1.gs	Method	GENSCAN

Start	77	End	941
GI	none	Score	.98
Exons	77..323, 461..607, 916..941		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122242	Strand	+
Start	1	End	2384
Name	OJ000330_22.0419.C55.o1.gp	Method	AAT/GAP
Start	460	End	2384
GI	33901_1.R1084	Score	1651
Exons	460..607, 1661..2384		
GI Descrip.	'4262154/gb|AAD14454| 2.0e-47 (AC005275) putative protein phosphatase regulatory subunit [Arabidopsis thaliana]'		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122242	Strand	+
Start	1	End	2384
Name	OJ000330_22.0419.C55.o2.gs	Method	GENSCAN
Start	1627	End	2151
GI	none	Score	.98
Exons	1627..2151		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122243	Strand	-
Start	3002	End	3325
Name	OJ000330_22.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	92	End	1959
GI	none	Score	43
Exons	92..130, 164..322, 166..321, 208..324, 221..328, 456..596, 456..527, 460..609, 460..609, 493..594, 502..594, 1647..1946, 1660..1959, 1681..1782		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122243	Strand	-
Start	3002	End	3325
Name	OJ000330_22.0419.C55.o1.tc	Method	TBLASTX:Cress
Start	493	End	1956
GI	none	Score	87
Exons	493..594, 1660..1899, 1665..1895, 1888..1956		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122243	Strand	-
Start	3002	End	3325
Name	OJ000330_22.0419.C55.o1.ts	Method	TBLASTX:Soybean
Start	502	End	1944
GI	none	Score	147
Exons	502..609, 502..594, 1659..1943, 1660..1944, 1690..1782		

Seq. No.	58527	Seq. ID	OJ000330_22.0419.C55
Gene No.	122243	Strand	-
Start	3002	End	3325
Name	OJ000330_22.0419.C55.o3.gs	Method	GENSCAN
Start	3002	End	3325
GI	none	Score	.5
Exons	3002..3102, 3162..3325		

Seq. No.	58528	Seq. ID	OJ000330_22.0419.C56

Gene No.	122244	Strand	+
Start	49	End	189
Name	OJ000330_22.0419.C56.o1.gs	Method	GENSCAN
Start	49	End	189
GI	none	Score	.98
Exons	49..189		

Seq. No.	58528	Seq. ID	OJ000330_22.0419.C56
Gene No.	122245	Strand	+
Start	2348	End	2607
Name	OJ000330_22.0419.C56.o2.gs	Method	GENSCAN
Start	2348	End	2607
GI	none	Score	.82
Exons	2348..2607		

Seq. No.	58529	Seq. ID	OJ000330_22.0419.C57
Gene No.	122246	Strand	-
Start	736	End	821
Name	OJ000330_22.0419.C57.o1.gs	Method	GENSCAN
Start	736	End	821
GI	none	Score	.49
Exons	736..821		

Seq. No.	58530	Seq. ID	OJ000310_23.0419.C2
Gene No.	122247	Strand	+
Start	1	End	169
Name	OJ000310_23.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	169
GI	6691469	Score	55
Exons	1..169		
GI Descrip.	(AB030709) AHMP2 [Triticum aestivum]		

Seq. No.	58531	Seq. ID	OJ000310_23.0419.C4
Gene No.	122248	Strand	+
Start	1	End	717
Name	OJ000310_23.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	717
GI	7489454	Score	333
Exons	1..717		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi|2943742|dbj|BAA25068.1| (AB002266) XA1 [Oryza sativa]		

Seq. No.	58531	Seq. ID	OJ000310_23.0419.C4
Gene No.	122248	Strand	+
Start	1	End	717
Name	OJ000310_23.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	5	End	529
GI	none	Score	66
Exons	5..127, 137..529, 217..339, 451..528		

Seq. No.	58531	Seq. ID	OJ000310_23.0419.C4
Gene No.	122248	Strand	+
Start	1	End	717
Name	OJ000310_23.0419.C4.o1.gs	Method	GENSCAN
Start	59	End	710
GI	none	Score	.88
Exons	59..710		

Seq. No.	58531	Seq. ID	OJ000310_23.0419.C4
Gene No.	122248	Strand	+
Start	1	End	717
Name	OJ000310_23.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	353	End	700
GI	none	Score	176
Exons	353..700		

Seq. No.	58532	Seq. ID	OJ000310_23.0419.C5
Gene No.	122249	Strand	-
Start	386	End	2167
Name	OJ000310_23.0419.C5.o1.gs	Method	GENSCAN
Start	386	End	2167
GI	none	Score	.53
Exons	386..525, 690..878, 2149..2167		

Seq. No.	58533	Seq. ID	OJ000310_23.0419.C6
Gene No.	122250	Strand	+
Start	613	End	822
Name	OJ000310_23.0419.C6.o1.gs	Method	GENSCAN
Start	613	End	822
GI	none	Score	.72
Exons	613..822		

Seq. No.	58534	Seq. ID	OJ000310_23.0419.C7
Gene No.	122251	Strand	+
Start	168	End	839
Name	OJ000310_23.0419.C7.o1.gs	Method	GENSCAN
Start	168	End	839
GI	none	Score	.63
Exons	168..215, 822..839		

Seq. No.	58535	Seq. ID	OJ000310_23.0419.C8
Gene No.	122252	Strand	+
Start	777	End	1229
Name	OJ000310_23.0419.C8.o1.gs	Method	GENSCAN
Start	777	End	1229
GI	none	Score	.54
Exons	777..868, 1060..1229		

Seq. No.	58536	Seq. ID	OJ000310_23.0419.C9
Gene No.	122253	Strand	+
Start	24	End	422
Name	OJ000310_23.0419.C9.o1.gs	Method	GENSCAN
Start	24	End	422
GI	none	Score	.96
Exons	24..422		

Seq. No.	58536	Seq. ID	OJ000310_23.0419.C9
Gene No.	122254	Strand	-
Start	1245	End	2725
Name	OJ000310_23.0419.C9.o2.gs	Method	GENSCAN
Start	1245	End	2725
GI	none	Score	.5
Exons	1245..1325, 2663..2725		

Seq. No.	58537	Seq. ID	OJ000310_23.0419.C10
Gene No.	122255	Strand	+
Start	238	End	641
Name	OJ000310_23.0419.C10.o1.gs	Method	GENSCAN
Start	238	End	641
GI	none	Score	.76
Exons	238..641		

Seq. No.	58538	Seq. ID	OJ000310_23.0419.C11
Gene No.	122256	Strand	-
Start	1	End	462
Name	OJ000310_23.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	255
GI	none	Score	477
Exons	1..255		

Seq. No.	58538	Seq. ID	OJ000310_23.0419.C11
Gene No.	122256	Strand	-
Start	1	End	462
Name	OJ000310_23.0419.C11.o1.gs	Method	GENSCAN
Start	42	End	462
GI	none	Score	.84
Exons	42..462		

Seq. No.	58539	Seq. ID	OJ000310_23.0419.C12
Gene No.	122257	Strand	-
Start	927	End	2520
Name	OJ000310_23.0419.C12.o1.gs	Method	GENSCAN
Start	927	End	2520
GI	none	Score	.81
Exons	927..1043, 1078..1293, 1563..1662, 2453..2520		

Seq. No.	58540	Seq. ID	OJ000310_23.0419.C13
Gene No.	122258	Strand	+
Start	209	End	1275
Name	OJ000310_23.0419.C13.o1.gs	Method	GENSCAN
Start	209	End	1275
GI	none	Score	.86
Exons	209..280, 502..594, 1147..1275		

Seq. No.	58540	Seq. ID	OJ000310_23.0419.C13
Gene No.	122259	Strand	-
Start	197	End	530
Name	OJ000310_23.0419.C13.o1.np	Method	AAT/NAP
Start	197	End	530
GI	282994	Score	113
Exons	197..530		
GI Descrip.	Sip1 protein - barley gi|167100 (M77475) seed imbibition protein [Hordeum vulgare]		

Seq. No.	58541	Seq. ID	OJ000310_23.0419.C14
Gene No.	122260	Strand	-
Start	202	End	781
Name	OJ000310_23.0419.C14.o1.gs	Method	GENSCAN
Start	202	End	781
GI	none	Score	.51
Exons	202..333, 394..511, 753..781		

Seq. No.	58542	Seq. ID	OJ000310_23.0419.C15
Gene No.	122261	Strand	+
Start	1	End	4350
Name	OJ000310_23.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1638
GI	6721512	Score	44
Exons	1..37, 1373..1475, 1503..1638		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	58542	Seq. ID	OJ000310_23.0419.C15
Gene No.	122261	Strand	+
Start	1	End	4350
Name	OJ000310_23.0419.C15.o1.gs	Method	GENSCAN
Start	1350	End	4350
GI	none	Score	.68
Exons	1350..1419, 1931..2083, 2774..2898, 2939..3154, 3251..3282, 3364..3398, 3536..4044, 4150..4184, 4205..4350		

Seq. No.	58542	Seq. ID	OJ000310_23.0419.C15
Gene No.	122261	Strand	+
Start	1	End	4350
Name	OJ000310_23.0419.C15.o3.np	Method	AAT/NAP
Start	1984	End	4009
GI	6721558	Score	244
Exons	1984..2083, 2774..2898, 3797..4009		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58542	Seq. ID	OJ000310_23.0419.C15
Gene No.	122261	Strand	+
Start	1	End	4350
Name	OJ000310_23.0419.C15.o4.np	Method	AAT/NAP
Start	2648	End	4105
GI	6721561	Score	849
Exons	2648..2707, 2966..3154, 3224..3282, 3364..4105		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58542	Seq. ID	OJ000310_23.0419.C15
Gene No.	122262	Strand	-
Start	92	End	2856
Name	OJ000310_23.0419.C15.o2.np	Method	AAT/NAP
Start	92	End	2856
GI	7523517	Score	88
Exons	92..112, 1358..1412, 1554..1682, 2827..2856		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122263	Strand	+
Start	149	End	493
Name	OJ000310_23.0419.C16.o1.gs	Method	GENSCAN
Start	149	End	493

GI	none	Score	.65
Exons	149..322, 356..493		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122264	Strand	+
Start	4948	End	5534
Name	OJ000310_23.0419.C16.o3.gp	Method	AAT/GAP
Start	4948	End	5534
GI	61605_3.R1084	Score	441
Exons	4948..4974, 5235..5534		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122265	Strand	-
Start	1106	End	10576
Name	OJ000310_23.0419.C16.o2.gs	Method	GENSCAN
Start	1106	End	3017
GI	none	Score	.87
Exons	1106..1477, 1539..2751, 2983..3017		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122265	Strand	-
Start	1106	End	10576
Name	OJ000310_23.0419.C16.o1.np	Method	AAT/NAP
Start	1109	End	6861
GI	5902445	Score	2813
Exons	1109..2342, 2382..2802, 5490..6861		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122265	Strand	-
Start	1106	End	10576
Name	OJ000310_23.0419.C16.o3.gs	Method	GENSCAN
Start	3682	End	8980
GI	none	Score	.43
Exons	3682..4007, 4022..4114, 4856..5082, 5499..5721, 5888..6059, 6112..6687, 6706..6844, 6944..7519, 7579..8534, 8585..8980		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122265	Strand	-
Start	1106	End	10576
Name	OJ000310_23.0419.C16.o2.gp	Method	AAT/GAP
Start	5227	End	5494
GI	61605_3.R1084	Score	441
Exons	5227..5494		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122265	Strand	-
Start	1106	End	10576
Name	OJ000310_23.0419.C16.o2.np	Method	AAT/NAP
Start	6928	End	8985
GI	5902444	Score	997
Exons	6928..8572, 8759..8985		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122265	Strand	-
Start	1106	End	10576
Name	OJ000310_23.0419.C16.o3.np	Method	AAT/NAP
Start	8447	End	10576
GI	7523517	Score	300
Exons	8447..8471, 10071..10116, 10266..10576		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122265	Strand	-
Start	1106	End	10576
Name	OJ000310_23.0419.C16.o4.gs	Method	GENSCAN
Start	9137	End	9943
GI	none	Score	.94
Exons	9137..9943		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o4.tw	Method	TBLASTX:Wheat
Start	1118	End	1715
GI	none	Score	63
Exons	1118..1249, 1119..1241, 1274..1447, 1467..1715		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o3.tw	Method	TBLASTX:Wheat
Start	1839	End	2222
GI	none	Score	204
Exons	1839..2222, 1840..2214		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	1917	End	2222
GI	none	Score	149
Exons	1917..2222, 1918..2205		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o8.tw	Method	TBLASTX:Wheat
Start	2364	End	2684
GI	none	Score	59
Exons	2364..2684, 2554..2679		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o7.tw	Method	TBLASTX:Wheat
Start	2724	End	5818
GI	none	Score	109
Exons	2724..2807, 5480..5584, 5592..5762, 5594..5818		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	5907	End	6291
GI	none	Score	68
Exons	5907..6134, 6145..6291, 6146..6232		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	5962	End	6345
GI	none	Score	114
Exons	5962..6156, 5964..6140, 6145..6345, 6146..6235, 6148..6342		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	6060	End	6402
GI	none	Score	64
Exons	6060..6140, 6145..6402, 6146..6235		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	6430	End	6786
GI	none	Score	188
Exons	6430..6786, 6458..6706		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	6461	End	6915
GI	none	Score	345
Exons	6461..6907, 6461..6808, 6472..6915		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	6511	End	6876
GI	none	Score	100
Exons	6511..6645, 6652..6876		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o5.tw	Method	TBLASTX:Wheat
Start	7108	End	7498
GI	none	Score	40
Exons	7108..7263, 7118..7183, 7182..7268, 7264..7341, 7378..7497, 7379..7498		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o6.tw	Method	TBLASTX:Wheat
Start	8190	End	8582
GI	none	Score	70
Exons	8190..8450, 8245..8424, 8424..8531, 8476..8526, 8538..8582		

Seq. No.	58543	Seq. ID	OJ000310_23.0419.C16
Gene No.	122266	Strand	-
Start	11331	End	11805
Name	OJ000310_23.0419.C16.o5.gs	Method	GENSCAN
Start	11331	End	11805
GI	none	Score	.81
Exons	11331..11533, 11766..11805		

Seq. No.	58544	Seq. ID	OJ000310_23.0419.C17
Gene No.	122267	Strand	+
Start	3785	End	5360
Name	OJ000310_23.0419.C17.o2.np	Method	AAT/NAP
Start	3785	End	5360
GI	6729030	Score	150
Exons	3785..3805, 5108..5360		
GI Descrip.	(AC009177) putative RING-H2 zinc finger protein ATL6 [Arabidopsis thaliana]		

Seq. No.	58544	Seq. ID	OJ000310_23.0419.C17
Gene No.	122268	Strand	-
Start	777	End	4361
Name	OJ000310_23.0419.C17.o1.gs	Method	GENSCAN
Start	777	End	4361
GI	none	Score	.64
Exons	777..937, 1964..2178, 3114..3271, 3561..3707, 3778..3879, 4305..4361		

Seq. No.	58544	Seq. ID	OJ000310_23.0419.C17
Gene No.	122268	Strand	-
Start	777	End	4361
Name	OJ000310_23.0419.C17.o1.np	Method	AAT/NAP
Start	1432	End	3858
GI	6691469	Score	131
Exons	1432..1487, 3555..3707, 3778..3858		
GI Descrip.	(AB030709) AHMP2 [Triticum aestivum]		

Seq. No.	58544	Seq. ID	OJ000310_23.0419.C17
Gene No.	122269	Strand	-
Start	4904	End	6789
Name	OJ000310_23.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	3558	End	6708
GI	none	Score	63
Exons	3558..3644, 3571..3705, 3576..3707, 3781..3864, 3782..3889, 4153..4269, 4154..4270, 4155..4277, 6177..6254, 6178..6255, 6179..6256, 6179..6265, 6625..6708		

Seq. No.	58544	Seq. ID	OJ000310_23.0419.C17
Gene No.	122269	Strand	-

Start	4904	End	6789
Name	OJ000310_23.0419.C17.o2.gs	Method	GENSCAN
Start	4904	End	6789
GI	none	Score	.59
Exons	4904..5530, 6377..6502, 6610..6789		

Seq. No.	58545	Seq. ID	OJ000310_23.0419.C18
Gene No.	122270	Strand	-
Start	1663	End	2291
Name	OJ000310_23.0419.C18.o1.np	Method	AAT/NAP
Start	1663	End	2291
GI	6539585	Score	114
Exons	1663..1733, 2117..2291		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	58546	Seq. ID	OJ000310_23.0419.C19
Gene No.	122271	Strand	+
Start	482	End	782
Name	OJ000310_23.0419.C19.o1.gs	Method	GENSCAN
Start	482	End	782
GI	none	Score	.69
Exons	482..636, 748..782		

Seq. No.	58546	Seq. ID	OJ000310_23.0419.C19
Gene No.	122272	Strand	+
Start	1439	End	1713
Name	OJ000310_23.0419.C19.o1.gp	Method	AAT/GAP
Start	1439	End	1713
GI	2311709	Score	494
Exons	1439..1713		

Seq. No.	58546	Seq. ID	OJ000310_23.0419.C19
Gene No.	122273	Strand	-
Start	1475	End	1644
Name	OJ000310_23.0419.C19.o2.gs	Method	GENSCAN
Start	1475	End	1644
GI	none	Score	.9
Exons	1475..1644		

Seq. No.	58547	Seq. ID	OJ000310_23.0419.C20
Gene No.	122274	Strand	+
Start	427	End	677
Name	OJ000310_23.0419.C20.o1.gp	Method	AAT/GAP
Start	427	End	677
GI	57713_5.R1084	Score	435
Exons	427..677		
GI Descrip.	'6015116/sp|O82653|ERG_ARATH 3.0e-34 GTP-BINDING PROTEIN ERG >gi_3676071_emb_CAA76979_ (Y17969) ERG protein [Arabidopsis thaliana]'		

Seq. No.	58547	Seq. ID	OJ000310_23.0419.C20
Gene No.	122275	Strand	-
Start	406	End	539
Name	OJ000310_23.0419.C20.o1.gs	Method	GENSCAN
Start	406	End	539
GI	none	Score	.84
Exons	406..539		

Seq. No.	58548	Seq. ID	OJ000310_23.0419.C22
Gene No.	122276	Strand	+
Start	104	End	679
Name	OJ000310_23.0419.C22.o1.gs	Method	GENSCAN
Start	104	End	679
GI	none	Score	.88
Exons	104..283, 391..516, 602..679		

Seq. No.	58548	Seq. ID	OJ000310_23.0419.C22
Gene No.	122276	Strand	+
Start	104	End	679
Name	OJ000310_23.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	194	End	679
GI	none	Score	103
Exons	194..283, 207..278, 221..280, 388..531, 596..679, 607..678		

Seq. No.	58549	Seq. ID	OJ000310_23.0419.C23
Gene No.	122277	Strand	-
Start	3538	End	4045
Name	OJ000310_23.0419.C23.o1.gs	Method	GENSCAN
Start	3538	End	4045
GI	none	Score	.78
Exons	3538..3903, 3926..4045		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122278	Strand	+
Start	1	End	3891
Name	OJ000310_23.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	3891
GI	6466937	Score	1637
Exons	1..645, 1821..2413, 2455..3453, 3662..3891		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122278	Strand	+
Start	1	End	3891
Name	OJ000310_23.0419.C24.o2.np	Method	AAT/NAP
Start	1	End	3891
GI	7489045	Score	1194
Exons	1..645, 1821..2413, 2455..3471, 3674..3891		
GI Descrip.	polyprotein - tomato gi|4235644|gb|AAD13304.1| (AF119040) polyprotein [Lycopersicon esculentum]		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	95	End	576
GI	none	Score	149
Exons	95..334, 133..342, 324..572, 325..576		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o3.tm	Method	TBLASTX:Maize

Start	155	End	594
GI	none	Score	173
Exons	155..334, 163..291, 170..334, 325..594, 337..591, 381..593		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	553	End	2086
GI	none	Score	57
Exons	553..606, 1824..2009, 2000..2086		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	1824	End	2349
GI	none	Score	166
Exons	1824..1994, 1860..1997, 1892..2008, 1987..2253, 2000..2263, 2251..2349		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o3.tw	Method	TBLASTX:Wheat
Start	1824	End	2200
GI	none	Score	135
Exons	1824..1997, 1841..1975, 1981..2166, 1994..2200		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	2365	End	2801
GI	none	Score	53
Exons	2365..2424, 2463..2564, 2583..2801		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o2.gs	Method	GENSCAN
Start	2372	End	3814
GI	none	Score	.63
Exons	2372..2501, 3759..3814		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o2.tw	Method	TBLASTX:Wheat
Start	2568	End	2969
GI	none	Score	291
Exons	2568..2969, 2744..2968		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o1.tm	Method	TBLASTX:Maize

Start	2802	End	3420
GI	none	Score	398
Exons	2802..3209, 2855..3208, 3039..3209, 3211..3420, 3259..3387, 3264..3419		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	2822	End	3209
GI	none	Score	339
Exons	2822..3130, 2823..3209, 2832..3209		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o4.tw	Method	TBLASTX:Wheat
Start	3057	End	3396
GI	none	Score	141
Exons	3057..3218, 3062..3217, 3241..3396, 3252..3389		

Seq. No.	58550	Seq. ID	OJ000310_23.0419.C24
Gene No.	122279	Strand	-
Start	2372	End	3891
Name	OJ000310_23.0419.C24.o5.tm	Method	TBLASTX:Maize
Start	3709	End	3891
GI	none	Score	180
Exons	3709..3891, 3712..3840, 3717..3890		

Seq. No.	58551	Seq. ID	OJ000310_23.0419.C31
Gene No.	122280	Strand	+
Start	978	End	1267
Name	OJ000310_23.0419.C31.o1.gs	Method	GENSCAN
Start	978	End	1267
GI	none	Score	.76
Exons	978..1267		

Seq. No.	58551	Seq. ID	OJ000310_23.0419.C31
Gene No.	122281	Strand	-
Start	2315	End	3259
Name	OJ000310_23.0419.C31.o2.gs	Method	GENSCAN
Start	2315	End	3259
GI	none	Score	.81
Exons	2315..2343, 2620..2740, 3254..3259		

Seq. No.	58551	Seq. ID	OJ000310_23.0419.C31
Gene No.	122282	Strand	
Start	3257	End	3604
Name	OJ000310_23.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	3257	End	3604
GI	none	Score	185
Exons	3257..3604		

Seq. No.	58552	Seq. ID	OJ000310_23.0419.C32
Gene No.	122283	Strand	+
Start	50	End	603
Name	OJ000310_23.0419.C32.o1.gs	Method	GENSCAN

Start	50	End	603
GI	none	Score	.59
Exons	50..229, 418..603		

Seq. No.	58553	Seq. ID	OJ000310_23.0419.C33
Gene No.	122284	Strand	+
Start	2239	End	2763
Name	OJ000310_23.0419.C33.o1.np	Method	AAT/NAP
Start	2239	End	2763
GI	5852179	Score	485
Exons	2239..2472, 2547..2763		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	58553	Seq. ID	OJ000310_23.0419.C33
Gene No.	122285	Strand	-
Start	370	End	642
Name	OJ000310_23.0419.C33.o1.gp	Method	AAT/GAP
Start	370	End	642
GI	61605_1.R1084	Score	461
Exons	370..642		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	58554	Seq. ID	OJ000310_23.0419.C34
Gene No.	122286	Strand	+
Start	986	End	1168
Name	OJ000310_23.0419.C34.o1.gs	Method	GENSCAN
Start	986	End	1168
GI	none	Score	.43
Exons	986..1168		

Seq. No.	58555	Seq. ID	OJ000310_23.0419.C36
Gene No.	122287	Strand	+
Start	54	End	927
Name	OJ000310_23.0419.C36.o1.gs	Method	GENSCAN
Start	54	End	927
GI	none	Score	1
Exons	54..927		

Seq. No.	58556	Seq. ID	OJ000310_23.0419.C37
Gene No.	122288	Strand	+
Start	1	End	1325
Name	OJ000310_23.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	1325
GI	6907089	Score	1673
Exons	1..1325		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58556	Seq. ID	OJ000310_23.0419.C37
Gene No.	122289	Strand	-
Start	1	End	1573
Name	OJ000310_23.0419.C37.o2.np	Method	AAT/NAP
Start	1	End	1573
GI	6498441	Score	255
Exons	1..75, 1413..1573		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type		

retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	58556	Seq. ID	OJ000310_23.0419.C37
Gene No.	122289	Strand	-
Start	1	End	1573
Name	OJ000310_23.0419.C37.o1.tw	Method	TBLASTX:Wheat
Start	1413	End	1569
GI	none	Score	107
Exons	1413..1568, 1414..1569		

Seq. No.	58557	Seq. ID	OJ000310_23.0419.C38
Gene No.	122290	Strand	-
Start	1	End	1243
Name	OJ000310_23.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	1243
GI	7228457	Score	1741
Exons	1..1084, 1146..1243		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58557	Seq. ID	OJ000310_23.0419.C38
Gene No.	122290	Strand	-
Start	1	End	1243
Name	OJ000310_23.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	466	End	858
GI	none	Score	83
Exons	466..723, 578..739, 706..804, 707..787, 811..858		

Seq. No.	58557	Seq. ID	OJ000310_23.0419.C38
Gene No.	122290	Strand	-
Start	1	End	1243
Name	OJ000310_23.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	568	End	853
GI	none	Score	89
Exons	568..816, 569..853		

Seq. No.	58558	Seq. ID	OJ000310_23.0419.C40
Gene No.	122291	Strand	+
Start	305	End	519
Name	OJ000310_23.0419.C40.o1.gs	Method	GENSCAN
Start	305	End	519
GI	none	Score	.81
Exons	305..519		

Seq. No.	58558	Seq. ID	OJ000310_23.0419.C40
Gene No.	122292	Strand	-
Start	732	End	954
Name	OJ000310_23.0419.C40.o2.gs	Method	GENSCAN
Start	732	End	875
GI	none	Score	.91
Exons	732..875		

Seq. No.	58558	Seq. ID	OJ000310_23.0419.C40
Gene No.	122292	Strand	-
Start	732	End	954
Name	OJ000310_23.0419.C40.o1.np	Method	AAT/NAP

Start	747	End	954
GI	5487873	Score	90
Exons	747..954		
GI Descrip.	(AF110333) PrMC3 [Pinus radiata]		

Seq. No.	58559	Seq. ID	OJ000310_23.0419.C41
Gene No.	122293	Strand	-
Start	864	End	1036
Name	OJ000310_23.0419.C41.o1.gs	Method	GENSCAN
Start	864	End	1036
GI	none	Score	.83
Exons	864..1036		

Seq. No.	58560	Seq. ID	OJ000310_23.0419.C42
Gene No.	122294	Strand	+
Start	468	End	528
Name	OJ000310_23.0419.C42.o1.gp	Method	AAT/GAP
Start	468	End	528
GI	2312838	Score	67
Exons	468..528		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	58561	Seq. ID	OJ000310_23.0419.C45
Gene No.	122295	Strand	-
Start	727	End	843
Name	OJ000310_23.0419.C45.o1.gs	Method	GENSCAN
Start	727	End	843
GI	none	Score	.55
Exons	727..843		

Seq. No.	58562	Seq. ID	OJ000310_23.0419.C46
Gene No.	122296	Strand	+
Start	147	End	775
Name	OJ000310_23.0419.C46.o1.gp	Method	AAT/GAP
Start	147	End	775
GI	705_1.R1084	Score	975
Exons	147..775		
GI Descrip.	'1362184/pir||S56685 2.0e-37 histone H2B-8 - wheat >gi_531058_dbj_BAA07157_ (D37943) protein H2B-8 [Triticum aestivum]'		

Seq. No.	58562	Seq. ID	OJ000310_23.0419.C46
Gene No.	122296	Strand	+
Start	147	End	775
Name	OJ000310_23.0419.C46.o1.gs	Method	GENSCAN
Start	245	End	706
GI	none	Score	.8
Exons	245..706		

Seq. No.	58562	Seq. ID	OJ000310_23.0419.C46
Gene No.	122296	Strand	+
Start	147	End	775
Name	OJ000310_23.0419.C46.o1.np	Method	AAT/NAP
Start	245	End	703
GI	3913804	Score	676
Exons	245..703		

GI Descrip. HISTONE H2B.3 gi|577825|emb|CAA49584| (X69960) H2B histone [Zea mays]

Seq. No.	58562	Seq. ID	OJ000310_23.0419.C46
Gene No.	122296	Strand	+
Start	147	End	775
Name	OJ000310_23.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	427	End	727
GI	none	Score	444
Exons	427..696, 431..727		

Seq. No.	58562	Seq. ID	OJ000310_23.0419.C46
Gene No.	122296	Strand	+
Start	147	End	775
Name	OJ000310_23.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	427	End	712
GI	none	Score	445
Exons	427..711, 431..712		

Seq. No.	58562	Seq. ID	OJ000310_23.0419.C46
Gene No.	122296	Strand	+
Start	147	End	775
Name	OJ000310_23.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	427	End	709
GI	none	Score	431
Exons	427..696, 431..709		

Seq. No.	58562	Seq. ID	OJ000310_23.0419.C46
Gene No.	122296	Strand	+
Start	147	End	775
Name	OJ000310_23.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	427	End	700
GI	none	Score	159
Exons	427..699, 427..570, 431..535,	431..700,	656..700

Seq. No.	58563	Seq. ID	OJ000310_23.0419.C50
Gene No.	122297	Strand	+
Start	229	End	932
Name	OJ000310_23.0419.C50.o1.gs	Method	GENSCAN
Start	229	End	932
GI	none	Score	.82
Exons	229..297, 372..739, 816..932		

Seq. No.	58563	Seq. ID	OJ000310_23.0419.C50
Gene No.	122298	Strand	-
Start	1	End	153
Name	OJ000310_23.0419.C50.o1.np	Method	AAT/NAP
Start	1	End	153
GI	6522541	Score	96
Exons	1..153		

GI Descrip. (AL132955) receptor-kinase like protein [Arabidopsis thaliana]

Seq. No.	58564	Seq. ID	OJ000310_23.0419.C55
Gene No.	122299	Strand	-
Start	1	End	511
Name	OJ000310_23.0419.C55.o1.gp	Method	AAT/GAP
Start	1	End	354

GI	705_1.R1084	Score	444
Exons	1..277, 335..354		
GI Descrip.	'1362184/pir||S56685 2.0e-37 histone H2B-8 - wheat >gi_531058_dbj_BAA07157_ (D37943) protein H2B-8 [Triticum aestivum]'		

Seq. No.	58564	Seq. ID	OJ000310_23.0419.C55
Gene No.	122299	Strand	-
Start	1	End	511
Name	OJ000310_23.0419.C55.o1.gs	Method	GENSCAN
Start	21	End	511
GI	none	Score	.83
Exons	21..224, 330..511		

Seq. No.	58565	Seq. ID	OJ000310_23.0419.C56
Gene No.	122300	Strand	+
Start	164	End	1294
Name	OJ000310_23.0419.C56.o1.np	Method	AAT/NAP
Start	164	End	1294
GI	2130082	Score	721
Exons	164..1294		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-) - rice gi|1122443 (U37133) receptor kinase-like protein [Oryza sativa] gi|2586085 (U72723) receptor kinase-like protein [Oryza longistaminata] gi|1586408|prf||2203451A receptor kinase-like protein [Oryza sativa]		

Seq. No.	58565	Seq. ID	OJ000310_23.0419.C56
Gene No.	122300	Strand	+
Start	164	End	1294
Name	OJ000310_23.0419.C56.o1.tw	Method	TBLASTX:Wheat
Start	356	End	1288
GI	none	Score	38
Exons	356..385, 494..586, 509..592, 521..661, 626..847, 749..814, 770..892, 913..1287, 914..1288		

Seq. No.	58565	Seq. ID	OJ000310_23.0419.C56
Gene No.	122300	Strand	+
Start	164	End	1294
Name	OJ000310_23.0419.C56.o1.ts	Method	TBLASTX:Soybean
Start	374	End	1279
GI	none	Score	160
Exons	374..658, 395..658, 485..658, 488..949, 494..661, 554..661, 572..940, 610..660, 682..723, 697..954, 704..940, 707..949, 710..1138, 956..1144, 957..1013, 959..1144, 991..1122, 1000..1086, 1010..1129, 1034..1141, 1148..1279		

Seq. No.	58565	Seq. ID	OJ000310_23.0419.C56
Gene No.	122300	Strand	+
Start	164	End	1294
Name	OJ000310_23.0419.C56.o1.tc	Method	TBLASTX:Cress
Start	383	End	1273
GI	none	Score	132
Exons	383..661, 386..658, 395..658, 395..658, 395..649, 395..661, 488..586, 539..661, 596..661, 676..939, 681..743, 707..955, 710..949, 710..952, 710..787, 713..949, 758..955, 959..1144, 970..1095, 983..1138, 983..1147, 1051..1143, 1148..1273		

Seq. No.	58565	Seq. ID	OJ000310_23.0419.C56
Gene No.	122300	Strand	+
Start	164	End	1294
Name	OJ000310_23.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	491	End	1228
GI	none	Score	84
Exons	491..634, 545..853, 704..784, 845..1228, 937..1227		

Seq. No.	58566	Seq. ID	OJ000310_23.0419.C57
Gene No.	122301	Strand	+
Start	1	End	210
Name	OJ000310_23.0419.C57.o1.gp	Method	AAT/GAP
Start	1	End	210
GI	LIB3431-010-P1-N1-F11	Score	361
Exons	1..210		
GI Descrip.	'287403/dbj|D10838|RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	58566	Seq. ID	OJ000310_23.0419.C57
Gene No.	122302	Strand	+
Start	549	End	917
Name	OJ000310_23.0419.C57.o1.gs	Method	GENSCAN
Start	549	End	917
GI	none	Score	.96
Exons	549..917		

Seq. No.	58567	Seq. ID	OJ000310_23.0419.C58
Gene No.	122303	Strand	-
Start	1	End	861
Name	OJ000310_23.0419.C58.o1.np	Method	AAT/NAP
Start	1	End	825
GI	6759435	Score	77
Exons	1..20, 566..825		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	58567	Seq. ID	OJ000310_23.0419.C58
Gene No.	122303	Strand	-
Start	1	End	861
Name	OJ000310_23.0419.C58.o1.gs	Method	GENSCAN
Start	136	End	861
GI	none	Score	.68
Exons	136..861		

Seq. No.	58568	Seq. ID	OJ000310_23.0419.C65
Gene No.	122304	Strand	-
Start	1	End	734
Name	OJ000310_23.0419.C65.o1.np	Method	AAT/NAP
Start	1	End	734
GI	6721562	Score	476
Exons	1..34, 309..734		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	58568	Seq. ID	OJ000310_23.0419.C65
Gene No.	122304	Strand	-
Start	1	End	734
Name	OJ000310_23.0419.C65.o1.tw	Method	TBLASTX:Wheat
Start	3	End	351
GI	none	Score	75
Exons	3..122, 22..111, 165..308, 182..307, 208..351, 209..313		

Seq. No.	58568	Seq. ID	OJ000310_23.0419.C65
Gene No.	122304	Strand	-
Start	1	End	734
Name	OJ000310_23.0419.C65.o1.gs	Method	GENSCAN
Start	18	End	729
GI	none	Score	.58
Exons	18..74, 292..729		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122305	Strand	-
Start	1	End	2632
Name	OJ000450_21.0420.C1.o1.np	Method	AAT/NAP
Start	1	End	1025
GI	7363274	Score	527
Exons	1..534, 616..1025		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122305	Strand	-
Start	1	End	2632
Name	OJ000450_21.0420.C1.o1.gs	Method	GENSCAN
Start	378	End	2632
GI	none	Score	.78
Exons	378..509, 870..1275, 1668..1858, 2389..2457, 2596..2632		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o2.gs	Method	GENSCAN
Start	4254	End	11268
GI	none	Score	.55
Exons	4254..4444, 4511..4639, 4747..4944, 4950..5089, 5447..5539, 6518..7616, 7734..7846, 8578..9628, 10021..10120, 10500..10673, 11185..11268		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o2.gp	Method	AAT/GAP
Start	6389	End	6718
GI	4716124	Score	639
Exons	6389..6718		
GI Descrip.	2832695/emb|CAA16793.1| 1.0e-15 (AL021713) putative protein [Arabidopsis thaliana]		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548

Name	OJ000450_21.0420.C1.o2.np	Method	AAT/NAP
Start	6487	End	12548
GI	7487848	Score	1248
Exons	6487..7658, 8610..9252, 9307..9594, 12527..12548		
GI Descrip.	hypothetical protein T9A21.50 - Arabidopsis thaliana gi|2832694|emb|CAA16792.1| (AL021713) putative protein [Arabidopsis thaliana] gi|7268613|emb|CAB78822.1| (AL161548) putative protein [Arabidopsis thaliana]		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o1.ts	Method	TBLASTX:Soybean
Start	6493	End	9248
GI	none	Score	92
Exons	6493..6951, 6526..6837, 6536..6853, 7051..7173, 7082..7165, 8623..9099, 8628..9116, 9126..9248		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o3.tm	Method	TBLASTX:Maize
Start	6493	End	8789
GI	none	Score	40
Exons	6493..6705, 8463..8501, 8464..8502, 8611..8787, 8611..8784, 8625..8789		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o1.tc	Method	TBLASTX:Cress
Start	6595	End	9110
GI	none	Score	139
Exons	6595..6951, 6602..6865, 8673..9110, 8686..9102		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o2.tm	Method	TBLASTX:Maize
Start	6712	End	9053
GI	none	Score	262
Exons	6712..6951, 6712..7038, 6938..7039, 8790..9053, 8797..9051		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o3.gp	Method	AAT/GAP
Start	6948	End	7620
GI	12023_1.R1084	Score	1244
Exons	6948..7620		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548

Name	OJ000450_21.0420.C1.o1.tm	Method	TBLASTX:Maize
Start	7040	End	9528
GI	none	Score	45
Exons	7040..7105, 7042..7107, 7084..7287, 7115..7243, 7312..7452, 9054..9203, 9055..9213, 9181..9375, 9183..9377, 9183..9374, 9337..9528, 9438..9527		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o2.tc	Method	TBLASTX:Cress
Start	7045	End	9359
GI	none	Score	163
Exons	7045..7263, 7354..7422, 9126..9359		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o2.ts	Method	TBLASTX:Soybean
Start	7174	End	9575
GI	none	Score	55
Exons	7174..7302, 7324..7506, 9249..9380, 9250..9339, 9403..9570, 9438..9575		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o3.np	Method	AAT/NAP
Start	9260	End	9628
GI	7523483	Score	102
Exons	9260..9628		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58569	Seq. ID	OJ000450_21.0420.C1
Gene No.	122306	Strand	-
Start	4254	End	12548
Name	OJ000450_21.0420.C1.o3.gs	Method	GENSCAN
Start	12179	End	12500
GI	none	Score	.97
Exons	12179..12500		

Seq. No.	58570	Seq. ID	OJ000450_21.0420.C2
Gene No.	122307	Strand	+
Start	5160	End	7872
Name	OJ000450_21.0420.C2.o1.np	Method	AAT/NAP
Start	5160	End	7872
GI	7340881	Score	499
Exons	5160..5246, 5393..5516, 5609..5733, 5815..6074, 7458..7576, 7682..7711, 7844..7872		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	58570	Seq. ID	OJ000450_21.0420.C2
Gene No.	122308	Strand	-
Start	1448	End	2014
Name	OJ000450_21.0420.C2.o2.gs	Method	GENSCAN
Start	1448	End	2014
GI	none	Score	1

Exons	1448..2014		
Seq. No.	58570	Seq. ID	OJ000450_21.0420.C2
Gene No.	122309	Strand	-
Start	6985	End	7804
Name	OJ000450_21.0420.C2.o4.gs	Method	GENSCAN
Start	6985	End	7804
GI	none	Score	.45
Exons	6985..7090, 7638..7804		
Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122310	Strand	+
Start	1	End	2101
Name	OJ000450_21.0420.C3.o1.np	Method	AAT/NAP
Start	1	End	990
GI	4680183	Score	195
Exons	1..99, 224..294, 901..990		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122310	Strand	+
Start	1	End	2101
Name	OJ000450_21.0420.C3.o1.gs	Method	GENSCAN
Start	888	End	2101
GI	none	Score	.9
Exons	888..946, 1642..2101		
Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122311	Strand	+
Start	3895	End	5765
Name	OJ000450_21.0420.C3.o2.gs	Method	GENSCAN
Start	3895	End	5765
GI	none	Score	.54
Exons	3895..4298, 4952..5071, 5236..5500, 5577..5765		
Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122312	Strand	+
Start	20005	End	20738
Name	OJ000450_21.0420.C3.o7.gs	Method	GENSCAN
Start	20005	End	20738
GI	none	Score	.86
Exons	20005..20358, 20592..20738		
Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122313	Strand	+
Start	20986	End	27849
Name	OJ000450_21.0420.C3.o8.gs	Method	GENSCAN
Start	20986	End	27010
GI	none	Score	.56
Exons	20986..21489, 21673..22353, 22493..22560, 23117..23459, 23828..23986, 24132..24182, 24388..24556, 26168..26213, 26329..26440, 26525..27010		
Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122313	Strand	+
Start	20986	End	27849
Name	OJ000450_21.0420.C3.o3.gp	Method	AAT/GAP

Start	23092	End	23870
GI	11797_2.R1084	Score	1523
Exons	23092..23870		
GI Descrip.	'2245125/emb|CAB10547.1| 6.0e-10 (Z97343) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122313	Strand	+
Start	20986	End	27849
Name	OJ000450_21.0420.C3.o5.np	Method	AAT/NAP
Start	25600	End	27849
GI	7485163	Score	121
Exons	25600..25635, 26745..26907, 27718..27849		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2245125|emb|CAB10547.1| (Z97343) hypothetical protein [Arabidopsis thaliana] gi|7268519|emb|CAB78770.1| (AL161546) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122313	Strand	+
Start	20986	End	27849
Name	OJ000450_21.0420.C3.o4.gp	Method	AAT/GAP
Start	26634	End	27192
GI	11797_1.R1084	Score	1054
Exons	26634..27192		
GI Descrip.	'2245125/emb|CAB10547.1| 2.0e-10 (Z97343) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122314	Strand	+
Start	28350	End	37874
Name	OJ000450_21.0420.C3.o6.np	Method	AAT/NAP
Start	28350	End	37636
GI	7485163	Score	156
Exons	28350..28461, 35577..35624, 37265..37349, 37448..37636		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2245125|emb|CAB10547.1| (Z97343) hypothetical protein [Arabidopsis thaliana] gi|7268519|emb|CAB78770.1| (AL161546) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122314	Strand	+
Start	28350	End	37874
Name	OJ000450_21.0420.C3.o10.gs	Method	GENSCAN
Start	37123	End	37874
GI	none	Score	.81
Exons	37123..37349, 37448..37589, 37629..37874		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122315	Strand	-
Start	2264	End	28196
Name	OJ000450_21.0420.C3.o2.np	Method	AAT/NAP
Start	2264	End	28196
GI	7484961	Score	307
Exons	2264..2497, 2560..2847, 4252..4346, 6635..6779, 7015..7056, 7137..7200, 11546..11583, 20025..20167, 20346..20424, 28168..28196		

GI Descrip. extensin homolog T9E8.80 - Arabidopsis thaliana gi|4584539|emb|CAB40769.1| (AL049608) extensin-like protein [Arabidopsis thaliana] gi|7268037|emb|CAB78376.1| (AL161536) extensin-like protein [Arabidopsis thaliana]

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122315	Strand	-
Start	2264	End	28196
Name	OJ000450_21.0420.C3.o3.gs	Method	GENSCAN
Start	6140	End	7219
GI	none	Score	1
Exons	6140..7219		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122315	Strand	-
Start	2264	End	28196
Name	OJ000450_21.0420.C3.o3.np	Method	AAT/NAP
Start	8161	End	11928
GI	6572076	Score	878
Exons	8161..8225, 10469..11928		

GI Descrip. (AL133452) receptor-protein kinase-like protein [Arabidopsis thaliana]

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122315	Strand	-
Start	2264	End	28196
Name	OJ000450_21.0420.C3.o4.gs	Method	GENSCAN
Start	10390	End	11931
GI	none	Score	1
Exons	10390..11931		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122315	Strand	-
Start	2264	End	28196
Name	OJ000450_21.0420.C3.o2.gp	Method	AAT/GAP
Start	16965	End	17506
GI	none	Score	964
Exons	16965..17506		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122315	Strand	-
Start	2264	End	28196
Name	OJ000450_21.0420.C3.o6.gs	Method	GENSCAN
Start	18175	End	19069
GI	none	Score	.54
Exons	18175..18263, 18539..18761, 18803..18923, 19002..19069		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122315	Strand	-
Start	2264	End	28196
Name	OJ000450_21.0420.C3.o4.np	Method	AAT/NAP
Start	18551	End	27029
GI	6523547	Score	247
Exons	18551..18768, 19775..20405, 21007..21102, 21680..21804, 26870..27029		

GI Descrip. (AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o1.tc	Method	TBLASTX:Cress
Start	10669	End	11074
GI	none	Score	146
Exons	10669..10773, 10783..11073, 10784..11074		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o2.tm	Method	TBLASTX:Maize
Start	10723	End	11001
GI	none	Score	119
Exons	10723..10845, 10733..10843, 10849..11001, 10850..10999		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o1.ts	Method	TBLASTX:Soybean
Start	10823	End	11680
GI	none	Score	132
Exons	10823..11050, 10825..11097, 11134..11238, 11314..11352, 11413..11517, 11414..11512, 11581..11679, 11585..11680		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o3.tm	Method	TBLASTX:Maize
Start	11155	End	11635
GI	none	Score	149
Exons	11155..11367, 11156..11350, 11407..11514, 11420..11497, 11581..11634, 11585..11635		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o2.tc	Method	TBLASTX:Cress
Start	11326	End	11680
GI	none	Score	57
Exons	11326..11361, 11374..11511, 11384..11512, 11581..11679, 11585..11680		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o1.tw	Method	TBLASTX:Wheat
Start	23163	End	37577
GI	none	Score	273
Exons	23163..23351, 23165..23341, 26700..26843, 26707..26967, 26714..26977, 37288..37350, 37420..37476, 37446..37577		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o1.tm	Method	TBLASTX:Maize

Start	23229	End	37604
GI	none	Score	143
Exons	23229..23351, 23229..23297, 23276..23341, 26780..26902, 26827..26985, 26827..26904, 37047..37145, 37048..37146, 37150..37227, 37155..37211, 37207..37350, 37293..37349, 37444..37476, 37446..37604, 37580..37603		

Seq. No.	58571	Seq. ID	OJ000450_21.0420.C3
Gene No.	122316	Strand	-
Start	29517	End	37604
Name	OJ000450_21.0420.C3.o9.gs	Method	GENSCAN
Start	29517	End	33953
GI	none	Score	.65
Exons	29517..29597, 30281..30481, 30646..30680, 32244..32468, 33944..33953		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122317	Strand	+
Start	2736	End	3244
Name	OJ000450_21.0420.C4.o1.gp	Method	AAT/GAP
Start	2736	End	3243
GI	75411_1.R1084	Score	732
Exons	2736..2997, 3091..3243		
GI Descrip.	'2245125/emb|CAB10547.1| 6.0e-10 (Z97343) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122317	Strand	+
Start	2736	End	3244
Name	OJ000450_21.0420.C4.o2.gp	Method	AAT/GAP
Start	2736	End	3244
GI	75411_1.R1084	Score	734
Exons	2736..2997, 3091..3244		
GI Descrip.	'2245125/emb|CAB10547.1| 6.0e-10 (Z97343) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122318	Strand	+
Start	9502	End	13406
Name	OJ000450_21.0420.C4.o1.np	Method	AAT/NAP
Start	9502	End	13406
GI	6539553	Score	6733
Exons	9502..13406		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122319	Strand	-
Start	3160	End	3693
Name	OJ000450_21.0420.C4.o6.tm	Method	TBLASTX:Maize
Start	2863	End	3198
GI	none	Score	42
Exons	2863..2898, 2884..2997, 2900..2998, 3080..3145, 3088..3198		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4

Gene No.	122319	Strand	-
Start	3160	End	3693
Name	OJ000450_21.0420.C4.o3.gp	Method	AAT/GAP
Start	3160	End	3693
GI	none	Score	1026
Exons	3160..3693		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122320	Strand	
Start	9496	End	9944
Name	OJ000450_21.0420.C4.o3.tw	Method	TBLASTX:Wheat
Start	9496	End	9882
GI	none	Score	347
Exons	9496..9882, 9507..9881		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122320	Strand	
Start	9496	End	9944
Name	OJ000450_21.0420.C4.o2.tm	Method	TBLASTX:Maize
Start	9631	End	9944
GI	none	Score	359
Exons	9631..9942, 9639..9944		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122321	Strand	
Start	10443	End	10765
Name	OJ000450_21.0420.C4.o1.tm	Method	TBLASTX:Maize
Start	10443	End	10765
GI	none	Score	303
Exons	10443..10763, 10450..10764, 10470..10763, 10574..10765		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122322	Strand	
Start	10792	End	11991
Name	OJ000450_21.0420.C4.o5.ts	Method	TBLASTX:Soybean
Start	10792	End	11178
GI	none	Score	88
Exons	10792..10947, 10930..11178		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122322	Strand	
Start	10792	End	11991
Name	OJ000450_21.0420.C4.o4.tm	Method	TBLASTX:Maize
Start	10966	End	11400
GI	none	Score	295
Exons	10966..11400, 11175..11375		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122322	Strand	
Start	10792	End	11991
Name	OJ000450_21.0420.C4.o5.tw	Method	TBLASTX:Wheat
Start	11043	End	11235
GI	none	Score	131
Exons	11043..11234, 11043..11114, 11044..11235, 11044..11235		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122322	Strand	

Start	10792	End	11991
Name	OJ000450_21.0420.C4.o2.ts	Method	TBLASTX:Soybean
Start	11188	End	11586
GI	none	Score	189
Exons	11188..11412, 11196..11366, 11197..11367, 11413..11586, 11421..11459		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122322	Strand	
Start	10792	End	11991
Name	OJ000450_21.0420.C4.o1.tw	Method	TBLASTX:Wheat
Start	11236	End	11991
GI	none	Score	625
Exons	11236..11700, 11244..11723, 11744..11974, 11752..11991, 11774..11971, 11832..11990		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o7.tm	Method	TBLASTX:Maize
Start	11916	End	12174
GI	none	Score	210
Exons	11916..12080, 11917..12174		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o1.tc	Method	TBLASTX:Cress
Start	12004	End	12263
GI	none	Score	200
Exons	12004..12225, 12192..12263		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o4.tw	Method	TBLASTX:Wheat
Start	12046	End	12590
GI	none	Score	126
Exons	12046..12225, 12192..12389, 12192..12365, 12384..12590, 12458..12580		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o3.ts	Method	TBLASTX:Soybean
Start	12082	End	12425
GI	none	Score	66
Exons	12082..12171, 12186..12425, 12186..12419		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o5.tm	Method	TBLASTX:Maize
Start	12192	End	12578
GI	none	Score	256
Exons	12192..12578		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o1.ts	Method	TBLASTX:Soybean
Start	12443	End	12788
GI	none	Score	313
Exons	12443..12643, 12444..12788		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o3.tm	Method	TBLASTX:Maize
Start	12599	End	12938
GI	none	Score	318
Exons	12599..12937, 12600..12938		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o2.tw	Method	TBLASTX:Wheat
Start	12794	End	13270
GI	none	Score	101
Exons	12794..12865, 12795..12869, 12884..13270, 12885..13232, 12886..13269		

Seq. No.	58572	Seq. ID	OJ000450_21.0420.C4
Gene No.	122323	Strand	
Start	11916	End	13270
Name	OJ000450_21.0420.C4.o4.ts	Method	TBLASTX:Soybean
Start	12801	End	13142
GI	none	Score	91
Exons	12801..12914, 12827..12907, 12933..13142, 12938..13063		

Seq. No.	58573	Seq. ID	OJ000450_21.0420.C5
Gene No.	122324	Strand	+
Start	50	End	948
Name	OJ000450_21.0420.C5.o1.gs	Method	GENSCAN
Start	50	End	948
GI	none	Score	.62
Exons	50..285, 917..948		

Seq. No.	58573	Seq. ID	OJ000450_21.0420.C5
Gene No.	122325	Strand	-
Start	1315	End	1460
Name	OJ000450_21.0420.C5.o2.gs	Method	GENSCAN
Start	1315	End	1460
GI	none	Score	.6
Exons	1315..1460		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122326	Strand	+
Start	1101	End	8549
Name	OJ000450_21.0420.C6.o1.gs	Method	GENSCAN
Start	1101	End	7917
GI	none	Score	.63
Exons	1101..1322, 2254..2367, 2461..2918, 4105..4211, 6932..7035, 7466..7669, 7762..7917		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122326	Strand	+
Start	1101	End	8549
Name	OJ000450_21.0420.C6.o1.gp	Method	AAT/GAP
Start	2464	End	2855
GI	none	Score	748
Exons	2464..2855		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122326	Strand	+
Start	1101	End	8549
Name	OJ000450_21.0420.C6.o3.gp	Method	AAT/GAP
Start	7336	End	8549
GI	none	Score	1010
Exons	7336..7669, 7762..7841, 8319..8394, 8464..8549		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122327	Strand	+
Start	10404	End	11235
Name	OJ000450_21.0420.C6.o2.gs	Method	GENSCAN
Start	10404	End	11235
GI	none	Score	.84
Exons	10404..10531, 11127..11235		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122328	Strand	+
Start	11958	End	14704
Name	OJ000450_21.0420.C6.o1.np	Method	AAT/NAP
Start	11931	End	14530
GI	7527728	Score	954
Exons	11931..12106, 13202..13592, 13817..14298, 14454..14530		
GI Descrip.	(AC010657) T5E21.9 [Arabidopsis thaliana]		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122328	Strand	+
Start	11958	End	14704
Name	OJ000450_21.0420.C6.o3.gs	Method	GENSCAN
Start	11958	End	14540
GI	none	Score	.82
Exons	11958..12176, 13227..13592, 13817..14191, 14424..14540		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122328	Strand	+
Start	11958	End	14704
Name	OJ000450_21.0420.C6.o4.gp	Method	AAT/GAP
Start	14103	End	14704
GI	uC-osflcyp121e04b1	Score	922
Exons	14103..14298, 14424..14704		
GI Descrip.	'4038044 2.0e-21 (AC005936) unknown protein [Arabidopsis thaliana] >gi_4406788_gb_AAD20098_ (AC006532) unknown protein [Arabidopsis thaliana]'		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122329	Strand	+
Start	15392	End	20725
Name	OJ000450_21.0420.C6.o4.gs	Method	GENSCAN

Start	15392	End	20357
GI	none	Score	.91
Exons	15392..15772, 15865..15957, 16110..16183, 16349..16407, 16475..16523, 17114..17144, 17467..17600, 18726..18885, 20038..20149, 20326..20357		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122329	Strand	+
Start	15392	End	20725
Name	OJ000450_21.0420.C6.o2.np	Method	AAT/NAP
Start	15413	End	20725
GI	6598331	Score	629
Exons	15413..15772, 15865..15957, 16110..16200, 16475..16531, 17052..17247, 18711..18932, 20053..20153, 20419..20569, 20634..20725		
GI Descrip.	(AC002329) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122329	Strand	+
Start	15392	End	20725
Name	OJ000450_21.0420.C6.o5.gp	Method	AAT/GAP
Start	18799	End	20524
GI	61380_1.R1084	Score	952
Exons	18799..18885, 19677..19851, 20038..20149, 20268..20325, 20419..20524		
GI Descrip.	'2132302/pir||S69032 1.0e-22 hypothetical protein YPR144c - yeast (Saccharomyces cerevisiae) >gi_1066493 (U40829) Weak similarity near C-terminus to RNA Polymerase beta subunit (Swiss Prot. accession number P11213) and CCAAT-binding transcription factor (PIR accession number A36368) [Saccharomyces cerevisiae]'		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122330	Strand	-
Start	4394	End	4876
Name	OJ000450_21.0420.C6.o2.gp	Method	AAT/GAP
Start	4394	End	4876
GI	none	Score	894
Exons	4394..4876		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122331	Strand	
Start	8685	End	8827
Name	OJ000450_21.0420.C6.o3.tm	Method	TBLASTX:Maize
Start	8685	End	8827
GI	none	Score	187
Exons	8685..8720, 8686..8802, 8690..8812, 8707..8805, 8708..8827		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122332	Strand	
Start	13227	End	13460
Name	OJ000450_21.0420.C6.o1.tw	Method	TBLASTX:Wheat
Start	13227	End	13460
GI	none	Score	187
Exons	13227..13460, 13235..13384		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122332	Strand	

Start	13227	End	13460
Name	OJ000450_21.0420.C6.o3.ts	Method	TBLASTX:Soybean
Start	13230	End	13436
GI	none	Score	207
Exons	13230..13436, 13244..13423		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122333	Strand	
Start	13452	End	14284
Name	OJ000450_21.0420.C6.o1.tc	Method	TBLASTX:Cress
Start	13452	End	14041
GI	none	Score	161
Exons	13452..13592, 13454..13609, 13811..14041, 13816..14040		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122333	Strand	
Start	13452	End	14284
Name	OJ000450_21.0420.C6.o1.tm	Method	TBLASTX:Maize
Start	13846	End	14260
GI	none	Score	521
Exons	13846..14223, 13850..14260, 13973..14233		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122333	Strand	
Start	13452	End	14284
Name	OJ000450_21.0420.C6.o1.ts	Method	TBLASTX:Soybean
Start	14063	End	14284
GI	none	Score	255
Exons	14063..14284, 14077..14223		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122334	Strand	
Start	17944	End	20103
Name	OJ000450_21.0420.C6.o2.tm	Method	TBLASTX:Maize
Start	17944	End	20103
GI	none	Score	34
Exons	17944..17979, 17948..17980, 18058..18156, 18059..18154, 18569..18625, 18571..18630, 18571..18630, 18687..18887, 18705..18887, 18712..18888, 19671..19850, 19673..19852, 19745..19852, 20038..20103		

Seq. No.	58574	Seq. ID	OJ000450_21.0420.C6
Gene No.	122335	Strand	
Start	20074	End	20532
Name	OJ000450_21.0420.C6.o2.ts	Method	TBLASTX:Soybean
Start	20074	End	20532
GI	none	Score	78
Exons	20074..20151, 20088..20153, 20269..20322, 20270..20329, 20417..20527, 20419..20532		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122336	Strand	+
Start	1	End	324
Name	OJ000450_21.0420.C7.o1.gp	Method	AAT/GAP
Start	1	End	324
GI	61380_1.R1084	Score	618
Exons	1..324		

GI Descrip. '2132302/pir||S69032 1.0e-22 hypothetical protein YPR144c - yeast (Saccharomyces cerevisiae) >gi_1066493 (U40829) Weak similarity near C-terminus to RNA Polymerase beta subunit (Swiss Prot. accession number P11213) and CCAAT-binding transcription factor (PIR accession number A36368) [Saccharomyces cerevisiae]'

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122337	Strand	+
Start	1577	End	6078
Name	OJ000450_21.0420.C7.o1.np	Method	AAT/NAP
Start	1577	End	6063
GI	3831457	Score	2241
Exons	1577..1673, 2385..2600, 2701..4052, 4130..4407, 4554..4585, 4685..5091, 5590..6063		
GI Descrip.	(AC005700) putative ligand-gated ion channel subunit [Arabidopsis thaliana]		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122337	Strand	+
Start	1577	End	6078
Name	OJ000450_21.0420.C7.o2.gp	Method	AAT/GAP
Start	1700	End	2552
GI	701533	Score	884
Exons	1700..1845, 2237..2552		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122337	Strand	+
Start	1577	End	6078
Name	OJ000450_21.0420.C7.o2.gs	Method	GENSCAN
Start	2342	End	6078
GI	none	Score	.86
Exons	2342..2600, 2701..4052, 4130..4407, 4685..4856, 4864..5091, 5590..6078		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122337	Strand	+
Start	1577	End	6078
Name	OJ000450_21.0420.C7.o3.gp	Method	AAT/GAP
Start	3053	End	3490
GI	LIB3431-034-P1-K1-F2	Score	831
Exons	3053..3490		
GI Descrip.	'6013233/gb|AAF01294.1|AF183932_1 3.0e-27 (AF183932) ionotropic glutamate receptor homolog [Arabidopsis thaliana]'		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122337	Strand	+
Start	1577	End	6078
Name	OJ000450_21.0420.C7.o4.gp	Method	AAT/GAP
Start	4176	End	4889
GI	6327_1.R1084	Score	857
Exons	4176..4407, 4554..4585, 4685..4889		
GI Descrip.	'2708331 2.0e-52 (AF038557) ligand gated channel-like protein [Arabidopsis thaliana]'		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122337	Strand	+
Start	1577	End	6078

Name	OJ000450_21.0420.C7.o5.gp	Method	AAT/GAP
Start	5218	End	5717
GI	6525_1.R1084	Score	950
Exons	5218..5717		
GI Descrip.	'2262157 9.0e-09 (AC002329) putative ligand-gated ion channel protein [Arabidopsis thaliana]'		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122338	Strand	+
Start	8942	End	12829
Name	OJ000450_21.0420.C7.o2.np	Method	AAT/NAP
Start	8942	End	12829
GI	7485120	Score	455
Exons	8942..8986, 10813..10926, 11012..11406, 12386..12454, 12565..12829		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2244865|emb|CAB10287.1| (Z97337) hypothetical protein [Arabidopsis thaliana] gi|7268254|emb|CAB78550.1| (AL161540) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122338	Strand	+
Start	8942	End	12829
Name	OJ000450_21.0420.C7.o4.gs	Method	GENSCAN
Start	11075	End	12636
GI	none	Score	68
Exons	11075..11114, 11207..11406, 11731..11949, 12386..12454, 12565..12636		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122339	Strand	-
Start	5731	End	6268
Name	OJ000450_21.0420.C7.o6.gp	Method	AAT/GAP
Start	5731	End	6268
GI	none	Score	1001
Exons	5731..6268		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o1.tc	Method	TBLASTX:Cress
Start	2411	End	5859
GI	none	Score	102
Exons	2411..2614, 2537..2614, 2699..3031, 2706..3032, 2952..3038, 3060..3260, 3075..3212, 3098..3259, 3264..3356, 3348..3545, 3378..3893, 3386..3607, 3632..3901, 3682..3894, 3784..3906, 3894..4055, 3911..3997, 3921..4043, 4124..4408, 4165..4407, 4657..4971, 4684..4932, 4686..4961, 4980..5087, 4981..5091, 4981..5121, 5589..5714, 5590..5724, 5734..5859		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o6.tm	Method	TBLASTX:Maize
Start	2419	End	2800
GI	none	Score	123
Exons	2419..2595, 2420..2599, 2699..2800, 2706..2798		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o1.ts	Method	TBLASTX:Soybean
Start	2669	End	3227
GI	none	Score	88
Exons	2669..3226, 2692..2889, 2706..3227		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o3.tm	Method	TBLASTX:Maize
Start	2898	End	3188
GI	none	Score	112
Exons	2898..2990, 2900..3016, 2991..3188, 3015..3188		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o4.ts	Method	TBLASTX:Soybean
Start	3264	End	3662
GI	none	Score	63
Exons	3264..3344, 3348..3662, 3389..3661		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o4.tm	Method	TBLASTX:Maize
Start	3282	End	3623
GI	none	Score	39
Exons	3282..3344, 3378..3623, 3388..3489, 3389..3613, 3535..3615		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o2.ts	Method	TBLASTX:Soybean
Start	3663	End	4162
GI	none	Score	407
Exons	3663..4043, 3665..3976, 3672..4034, 4133..4162		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o2.tm	Method	TBLASTX:Maize
Start	4109	End	4408
GI	none	Score	304
Exons	4109..4408, 4159..4404		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o6.ts	Method	TBLASTX:Soybean
Start	4163	End	4411
GI	none	Score	91
Exons	4163..4243, 4171..4236, 4208..4411, 4246..4410		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	4683	End	5120
GI	none	Score	127
Exons	4683..4781, 4684..5115, 4686..5120, 4687..5091		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o3.ts	Method	TBLASTX:Soybean
Start	4779	End	5874
GI	none	Score	342
Exons	4779..5030, 4780..5091, 5590..5685, 5598..5693, 5737..5874		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122340	Strand	-
Start	6880	End	8943
Name	OJ000450_21.0420.C7.o3.gs	Method	GENSCAN
Start	6880	End	8943
GI	none	Score	.6
Exons	6880..7011, 7315..7458, 7733..8094, 8865..8943		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122341	Strand	
Start	8918	End	12639
Name	OJ000450_21.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	8918	End	11074
GI	none	Score	93
Exons	8918..8989, 8942..8986, 10806..10919, 10807..10920, 11011..11073, 11012..11074		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122341	Strand	
Start	8918	End	12639
Name	OJ000450_21.0420.C7.o5.tm	Method	TBLASTX:Maize
Start	8918	End	11046
GI	none	Score	105
Exons	8918..8989, 8942..8989, 10807..10935, 10807..10938, 11009..11044, 11011..11046		

Seq. No.	58575	Seq. ID	OJ000450_21.0420.C7
Gene No.	122341	Strand	
Start	8918	End	12639
Name	OJ000450_21.0420.C7.o5.ts	Method	TBLASTX:Soybean
Start	10894	End	12639
GI	none	Score	46
Exons	10894..10950, 11012..11080, 11153..11197, 11281..11334, 11380..11409, 12385..12453, 12386..12454, 12561..12635, 12562..12639, 12563..12634, 12564..12638		

Seq. No.	58576	Seq. ID	OJ000320_28.0419.C1
Gene No.	122342	Strand	-
Start	68	End	1872
Name	OJ000320_28.0419.C1.o1.gs	Method	GENSCAN
Start	68	End	1872

GI	none	Score	.78
Exons	68..206, 645..772, 1160..1340, 1752..1872		

Seq. No.	58577	Seq. ID	OJ000320_28.0419.C2
Gene No.	122343	Strand	+
Start	8	End	983
Name	OJ000320_28.0419.C2.o1.gs	Method	GENSCAN
Start	8	End	983
GI	none	Score	.84
Exons	8..234, 470..554, 606..704, 901..983		

Seq. No.	58578	Seq. ID	OJ000320_28.0419.C3
Gene No.	122344	Strand	+
Start	496	End	1068
Name	OJ000320_28.0419.C3.o1.gs	Method	GENSCAN
Start	496	End	1068
GI	none	Score	.9
Exons	496..1068		

Seq. No.	58578	Seq. ID	OJ000320_28.0419.C3
Gene No.	122345	Strand	-
Start	392	End	1297
Name	OJ000320_28.0419.C3.o1.np	Method	AAT/NAP
Start	392	End	1297
GI	7340881	Score	230
Exons	392..668, 767..849, 933..1064, 1212..1297		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	995
GI	4680179	Score	1611
Exons	1..995		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	33	End	488
GI	none	Score	134
Exons	33..488, 34..420		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o1.gs	Method	GENSCAN
Start	89	End	860
GI	none	Score	.58
Exons	89..860		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o1.tw	Method	TBLASTX:Wheat

Start	108	End	509
GI	none	Score	294
Exons	108..509, 109..477, 111..506		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	222	End	617
GI	none	Score	147
Exons	222..581, 223..477, 252..569, 503..574, 585..617, 589..615		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	504	End	971
GI	none	Score	104
Exons	504..971, 601..900		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	558	End	983
GI	none	Score	267
Exons	558..983, 601..936		

Seq. No.	58579	Seq. ID	OJ000320_28.0419.C4
Gene No.	122346	Strand	-
Start	1	End	995
Name	OJ000320_28.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	690	End	971
GI	none	Score	57
Exons	690..971, 691..888		

Seq. No.	58580	Seq. ID	OJ000320_28.0419.C5
Gene No.	122347	Strand	+
Start	2314	End	2470
Name	OJ000320_28.0419.C5.o2.np	Method	AAT/NAP
Start	2314	End	2470
GI	7363271	Score	141
Exons	2314..2470		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	58580	Seq. ID	OJ000320_28.0419.C5
Gene No.	122348	Strand	-
Start	1	End	1376
Name	OJ000320_28.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1376
GI	6721517	Score	1105
Exons	1..242, 291..1076, 1135..1257, 1295..1376		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	58580	Seq. ID	OJ000320_28.0419.C5
Gene No.	122348	Strand	-
Start	1	End	1376

Name	OJ000320_28.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	15	End	326
GI	none	Score	106
Exons	15..236, 91..237, 279..326		

Seq. No.	58580	Seq. ID	OJ000320_28.0419.C5
Gene No.	122348	Strand	-
Start	1	End	1376
Name	OJ000320_28.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	846	End	1163
GI	none	Score	101
Exons	846..1163, 847..1143		

Seq. No.	58581	Seq. ID	OJ000320_28.0419.C9
Gene No.	122349	Strand	-
Start	1	End	1370
Name	OJ000320_28.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1370
GI	7446445	Score	340
Exons	1..21, 128..208, 307..378, 470..565, 644..761, 869..1370		
GI Descrip.	serine/threonine-specific protein kinase (EC 2.7.1.-) lrrpk - Arabidopsis thaliana gi|4938475|emb|CAB43834.1| (AL078464) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana] gi|7269899|emb|CAB80992.1| (AL161576) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana]		

Seq. No.	58581	Seq. ID	OJ000320_28.0419.C9
Gene No.	122349	Strand	-
Start	1	End	1370
Name	OJ000320_28.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	160	End	1004
GI	none	Score	50
Exons	160..207, 161..208, 311..376, 313..378, 336..407, 474..539, 482..541, 647..760, 655..759, 870..1004, 883..981		

Seq. No.	58581	Seq. ID	OJ000320_28.0419.C9
Gene No.	122349	Strand	-
Start	1	End	1370
Name	OJ000320_28.0419.C9.o1.gs	Method	GENSCAN
Start	307	End	1341
GI	none	Score	.78
Exons	307..378, 629..761, 869..1207, 1257..1341		

Seq. No.	58582	Seq. ID	OJ000320_28.0419.C10
Gene No.	122350	Strand	-
Start	1	End	687
Name	OJ000320_28.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	687
GI	7446445	Score	382
Exons	1..687		
GI Descrip.	serine/threonine-specific protein kinase (EC 2.7.1.-) lrrpk - Arabidopsis thaliana gi|4938475|emb|CAB43834.1| (AL078464) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana] gi|7269899|emb|CAB80992.1| (AL161576) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana]		

Seq. No.	58582	Seq. ID	OJ000320_28.0419.C10
Gene No.	122350	Strand	-
Start	1	End	687
Name	OJ000320_28.0419.C10.o1.gs	Method	GENSCAN
Start	65	End	617
GI	none	Score	.78
Exons	65..617		

Seq. No.	58582	Seq. ID	OJ000320_28.0419.C10
Gene No.	122350	Strand	-
Start	1	End	687
Name	OJ000320_28.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	145	End	619
GI	none	Score	125
Exons	145..399, 155..400, 412..618,	494..619	

Seq. No.	58582	Seq. ID	OJ000320_28.0419.C10
Gene No.	122350	Strand	-
Start	1	End	687
Name	OJ000320_28.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	283	End	468
GI	none	Score	44
Exons	283..330, 286..330, 334..468,	335..460	

Seq. No.	58582	Seq. ID	OJ000320_28.0419.C10
Gene No.	122350	Strand	-
Start	1	End	687
Name	OJ000320_28.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	316	End	621
GI	none	Score	65
Exons	316..483, 326..451, 481..576,	595..621	

Seq. No.	58583	Seq. ID	OJ000320_28.0419.C11
Gene No.	122351	Strand	+
Start	781	End	1317
Name	OJ000320_28.0419.C11.o1.gs	Method	GENSCAN
Start	781	End	1317
GI	none	Score	.62
Exons	781..939, 1180..1317		

Seq. No.	58583	Seq. ID	OJ000320_28.0419.C11
Gene No.	122352	Strand	+
Start	1952	End	2484
Name	OJ000320_28.0419.C11.o2.gs	Method	GENSCAN
Start	1952	End	2484
GI	none	Score	.75
Exons	1952..2318, 2329..2484		

Seq. No.	58583	Seq. ID	OJ000320_28.0419.C11
Gene No.	122352	Strand	+
Start	1952	End	2484
Name	OJ000320_28.0419.C11.o2.np	Method	AAT/NAP
Start	1970	End	2383
GI	6523547	Score	169
Exons	1970..2383		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox		

carteri f. nagariensis]

Seq. No.	58583	Seq. ID	OJ000320_28.0419.C11
Gene No.	122353	Strand	-
Start	1	End	2522
Name	OJ000320_28.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	2522
GI	7106508	Score	433
Exons	1..178, 690..914, 974..1251, 2502..2522		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122354	Strand	+
Start	2637	End	2923
Name	OJ000320_28.0419.C12.o2.np	Method	AAT/NAP
Start	2602	End	2923
GI	121631	Score	185
Exons	2602..2923		
GI Descrip.	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN 2 PRECURSOR gi|72323|pir||KNNT2S glycine-rich protein 2 - wood tobacco gi|19743|emb|CAA42622| (X60007) nsGRP-2 [Nicotiana sylvestris]		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122354	Strand	+
Start	2637	End	2923
Name	OJ000320_28.0419.C12.o2.gs	Method	GENSCAN
Start	2637	End	2844
GI	none	Score	.83
Exons	2637..2844		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122355	Strand	-
Start	271	End	2131
Name	OJ000320_28.0419.C12.o1.np	Method	AAT/NAP
Start	271	End	2131
GI	7446449	Score	660
Exons	271..670, 762..954, 1059..1121, 1195..1324, 1426..1634, 1775..1973, 2070..2131		
GI Descrip.	serine/threonine-specific protein kinase (EC 2.7.1.-) F9F13.100 - Arabidopsis thaliana gi|5262168|emb|CAB45811.1| (AL080253) receptor protein kinase-like protein [Arabidopsis thaliana] gi|7268841|emb|CAB79045.1| (AL161553) receptor protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122355	Strand	-
Start	271	End	2131
Name	OJ000320_28.0419.C12.o1.gs	Method	GENSCAN
Start	346	End	1656
GI	none	Score	.59
Exons	346..670, 762..954, 1059..1127, 1198..1324, 1426..1656		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122355	Strand	-
Start	271	End	2131
Name	OJ000320_28.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	355	End	1545

GI	none	Score	64
Exons	355..567, 580..669, 758..787, 800..955, 807..956, 1057..1122, 1196..1321, 1215..1298, 1420..1545		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122355	Strand	-
Start	271	End	2131
Name	OJ000320_28.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	367	End	2117
GI	none	Score	45
Exons	367..531, 394..522, 578..670, 580..669, 758..826, 800..955, 831..956, 840..956, 1057..1122, 1178..1321, 1215..1301, 1229..1327, 1418..1486, 1420..1497, 1501..1596, 1503..1559, 1875..1949, 2037..2117		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122355	Strand	-
Start	271	End	2131
Name	OJ000320_28.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	499	End	1593
GI	none	Score	69
Exons	499..567, 580..669, 590..655, 758..787, 822..956, 833..955, 1057..1104, 1202..1318, 1423..1593		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122355	Strand	-
Start	271	End	2131
Name	OJ000320_28.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	512	End	875
GI	none	Score	212
Exons	512..670, 514..672, 758..874, 759..875		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122355	Strand	-
Start	271	End	2131
Name	OJ000320_28.0419.C12.o3.tw	Method	TBLASTX:Wheat
Start	888	End	1321
GI	none	Score	39
Exons	888..956, 890..955, 1057..1113, 1058..1114, 1202..1321		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122356	Strand	
Start	2567	End	2891
Name	OJ000320_28.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	2567	End	2891
GI	none	Score	37
Exons	2567..2605, 2628..2891, 2649..2867, 2650..2868		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122356	Strand	
Start	2567	End	2891
Name	OJ000320_28.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	2631	End	2877
GI	none	Score	267
Exons	2631..2870, 2649..2867, 2650..2877		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12

Gene No.	122356	Strand	
Start	2567	End	2891
Name	OJ000320_28.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	2631	End	2867
GI	none	Score	180
Exons	2631..2816, 2661..2867		

Seq. No.	58584	Seq. ID	OJ000320_28.0419.C12
Gene No.	122356	Strand	
Start	2567	End	2891
Name	OJ000320_28.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	2639	End	2837
GI	none	Score	194
Exons	2639..2707, 2649..2837, 2783..2833		

Seq. No.	58585	Seq. ID	OJ000320_28.0419.C13
Gene No.	122357	Strand	-
Start	1	End	3537
Name	OJ000320_28.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	3537
GI	6522621	Score	445
Exons	1..52, 566..635, 724..795, 1364..1502, 1750..2298, 3139..3537		
GI Descrip.	(AL133298) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58585	Seq. ID	OJ000320_28.0419.C13
Gene No.	122357	Strand	-
Start	1	End	3537
Name	OJ000320_28.0419.C13.o1.gs	Method	GENSCAN
Start	165	End	3458
GI	none	Score	.48
Exons	165..302, 564..635, 1364..1502, 1750..2219, 3075..3458		

Seq. No.	58585	Seq. ID	OJ000320_28.0419.C13
Gene No.	122357	Strand	-
Start	1	End	3537
Name	OJ000320_28.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	563	End	3535
GI	none	Score	78
Exons	563..664, 1384..1503, 1433..1504, 1751..1855, 1871..2047, 3152..3337, 3336..3410, 3344..3409, 3422..3535		

Seq. No.	58585	Seq. ID	OJ000320_28.0419.C13
Gene No.	122357	Strand	-
Start	1	End	3537
Name	OJ000320_28.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	3290	End	3478
GI	none	Score	236
Exons	3290..3478, 3294..3470		

Seq. No.	58586	Seq. ID	OJ000320_28.0419.C14
Gene No.	122358	Strand	-
Start	12	End	99
Name	OJ000320_28.0419.C14.o1.gs	Method	GENSCAN
Start	12	End	99
GI	none	Score	.72
Exons	12..99		

Seq. No.	58586	Seq. ID	OJ000320_28.0419.C14
Gene No.	122359	Strand	-
Start	1410	End	2010
Name	OJ000320_28.0419.C14.o2.gs	Method	GENSCAN
Start	1410	End	2010
GI	none	Score	.54
Exons	1410..1629, 1745..2010		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122360	Strand	-
Start	1	End	3112
Name	OJ000320_28.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	2983
GI	7446445	Score	940
Exons	1..55, 151..350, 475..668, 984..1064, 1152..1223, 1314..1385, 1524..1662, 1761..2262, 2373..2983		
GI Descrip.	serine/threonine-specific protein kinase (EC 2.7.1.-) lrrpk - Arabidopsis thaliana gi|4938475|emb|CAB43834.1| (AL078464) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana] gi|7269899|emb|CAB80992.1| (AL161576) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana]		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122360	Strand	-
Start	1	End	3112
Name	OJ000320_28.0419.C15.o1.gs	Method	GENSCAN
Start	151	End	3112
GI	none	Score	.92
Exons	151..419, 502..668, 984..1064, 1314..1385, 1524..1662, 1761..2257, 2365..2917, 3022..3112		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122361	Strand	-
Start	3544	End	3985
Name	OJ000320_28.0419.C15.o2.gs	Method	GENSCAN
Start	3544	End	3985
GI	none	Score	.74
Exons	3544..3840, 3846..3985		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122362	Strand	-
Start	4083	End	4402
Name	OJ000320_28.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	1	End	327
GI	none	Score	39
Exons	1..57, 2..76, 139..327, 149..325		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122362	Strand	-
Start	4083	End	4402
Name	OJ000320_28.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	2	End	2921
GI	none	Score	74
Exons	2..67, 139..222, 140..229, 181..348, 227..313, 983..1063, 993..1055, 1149..1223, 1151..1222, 1323..1385, 1544..1663, 1593..1667, 1762..1866, 1891..1938, 1963..2061, 2445..2699,		

2455..2700, 2712..2921, 2722..2808, 2854..2919

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122362	Strand	-
Start	4083	End	4402
Name	OJ000320_28.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1016	End	1896
GI	none	Score	60
Exons	1016..1063, 1017..1064, 1121..1222, 1152..1223, 1324..1383, 1326..1385, 1521..1667, 1523..1663, 1524..1667, 1744..1896, 1763..1873		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122362	Strand	-
Start	4083	End	4402
Name	OJ000320_28.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	2490	End	2918
GI	none	Score	44
Exons	2490..2558, 2491..2535, 2589..2690, 2593..2688, 2712..2783, 2719..2796, 2895..2918		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122362	Strand	-
Start	4083	End	4402
Name	OJ000320_28.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	2583	End	2770
GI	none	Score	53
Exons	2583..2630, 2586..2630, 2626..2769, 2630..2770, 2634..2768, 2686..2769		

Seq. No.	58587	Seq. ID	OJ000320_28.0419.C15
Gene No.	122362	Strand	-
Start	4083	End	4402
Name	OJ000320_28.0419.C15.o1.gp	Method	AAT/GAP
Start	4083	End	4402
GI	20631_1.R1084	Score	583
Exons	4083..4402		
GI Descrip.	'4539423/emb|CAB38956.1| 1.0e-152 (AL049171) pyrophosphate-dependent phosphofructo-1-kinase [Arabidopsis thaliana]'		

Seq. No.	58588	Seq. ID	OJ000320_28.0419.C16
Gene No.	122363	Strand	-
Start	1	End	852
Name	OJ000320_28.0419.C16.o1.gp	Method	AAT/GAP
Start	1	End	849
GI	20631_1.R1084	Score	652
Exons	1..55, 152..197, 400..624, 808..849		
GI Descrip.	'4539423/emb|CAB38956.1| 1.0e-152 (AL049171) pyrophosphate-dependent phosphofructo-1-kinase [Arabidopsis thaliana]'		

Seq. No.	58588	Seq. ID	OJ000320_28.0419.C16
Gene No.	122363	Strand	-
Start	1	End	852
Name	OJ000320_28.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	852

GI	7488164	Score	390
Exons	1..55, 152..197, 400..624, 808..852		
GI Descrip.	probable pyrophosphate--fructose-6-phosphate 1-phosphotransferase (EC 2.7.1.90) T25K17.80 - Arabidopsis thaliana gi|4539423|emb|CAB38956.1| (AL049171) pyrophosphate-dependent phosphofructo-1-kinase [Arabidopsis thaliana] gi|7269478|emb|CAB79482.1| (AL161564) pyrophosphate-dependent phosphofructo-1-kinase [Arabidopsis thaliana]		

Seq. No.	58588	Seq. ID	OJ000320_28.0419.C16
Gene No.	122363	Strand	-
Start	1	End	852
Name	OJ000320_28.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	852
GI	none	Score	84
Exons	1..63, 2..64, 3..119, 153..200, 153..197, 154..201, 393..623, 394..438, 398..565, 400..624, 481..624, 806..850, 806..847, 808..852		

Seq. No.	58588	Seq. ID	OJ000320_28.0419.C16
Gene No.	122363	Strand	-
Start	1	End	852
Name	OJ000320_28.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	394	End	624
GI	none	Score	58
Exons	394..429, 430..462, 469..624, 494..532		

Seq. No.	58588	Seq. ID	OJ000320_28.0419.C16
Gene No.	122363	Strand	-
Start	1	End	852
Name	OJ000320_28.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	394	End	852
GI	none	Score	98
Exons	394..624, 398..535, 484..624, 806..844, 808..852		

Seq. No.	58588	Seq. ID	OJ000320_28.0419.C16
Gene No.	122363	Strand	-
Start	1	End	852
Name	OJ000320_28.0419.C16.o1.gs	Method	GENSCAN
Start	400	End	848
GI	none	Score	.58
Exons	400..624, 808..848		

Seq. No.	58588	Seq. ID	OJ000320_28.0419.C16
Gene No.	122363	Strand	-
Start	1	End	852
Name	OJ000320_28.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	454	End	852
GI	none	Score	52
Exons	454..624, 482..532, 487..624, 806..850, 808..852		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	114	End	2893

GI	none	Score	70
Exons	114..212, 117..212, 125..220, 288..449, 289..450, 289..450, 290..454, 1304..1441, 1305..1442, 1306..1443, 1332..1442, 1522..1590, 1524..1592, 1526..1591, 1530..1592, 1668..1715, 1669..1713, 1808..1855, 1809..1850, 2499..2588, 2500..2565, 2586..2687, 2650..2688, 2791..2817, 2797..2817, 2825..2893		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o2.tc	Method	TBLASTX:Cress
Start	117	End	447
GI	none	Score	52
Exons	117..212, 140..214, 152..220, 273..392, 288..446, 289..447		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	125	End	2615
GI	none	Score	64
Exons	125..220, 165..212, 288..446, 289..447, 1307..1441, 1308..1442, 1524..1592, 1668..1718, 1669..1719, 1808..1855, 2499..2615		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o1.np	Method	AAT/NAP
Start	128	End	2603
GI	7434215	Score	561
Exons	128..211, 291..449, 1304..1441, 1527..1589, 1671..1710, 1809..1855, 2499..2603		
GI Descrip.	probable pyrophosphate--fructose-6-phosphate 1-phosphotransferase (EC 2.7.1.90) T16I18.50 - Arabidopsis thaliana gi|7270231|emb|CAB80001.1| (AL161582) putative pyrophosphate--fructose-6-phosphate 1-phosphotransferase [Arabidopsis thaliana]		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o1.gp	Method	AAT/GAP
Start	142	End	1414
GI	20631_1.R1084	Score	538
Exons	142..211, 291..449, 1304..1414		
GI Descrip.	'4539423/emb|CAB38956.1| 1.0e-152 (AL049171) pyrophosphate-dependent phosphofructo-1-kinase [Arabidopsis thaliana]'		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o1.gs	Method	GENSCAN
Start	158	End	2939
GI	none	Score	.74
Exons	158..211, 291..449, 1304..1441, 1527..1589, 1671..1710, 1809..1855, 2499..2939		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	1307	End	2654
GI	none	Score	97
Exons	1307..1441, 1311..1448, 1323..1442, 1524..1592, 1668..1718, 1672..1719, 1808..1855, 1809..1856, 2499..2654		

Seq. No.	58589	Seq. ID	OJ000320_28.0419.C17
Gene No.	122364	Strand	-
Start	128	End	2939
Name	OJ000320_28.0419.C17.o2.gp	Method	AAT/GAP
Start	2511	End	2908
GI	45782_1.R1084	Score	767
Exons	2511..2908		
GI Descrip.	'4835797/gb|AAD30263.1|AC007296_24 5.0e-23 (AC007296) Strong similarity to gb_U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF_00067 Cytochrome P450 family. ESTs gb_Z30775 and gb_Z30776 come from this gene'		

Seq. No.	58590	Seq. ID	OJ000320_28.0419.C18
Gene No.	122365	Strand	-
Start	373	End	3865
Name	OJ000320_28.0419.C18.o1.gs	Method	GENSCAN
Start	373	End	3670
GI	none	Score	.74
Exons	373..498, 827..945, 1317..1429, 2159..2208, 2304..2374, 3155..3200, 3590..3670		

Seq. No.	58590	Seq. ID	OJ000320_28.0419.C18
Gene No.	122365	Strand	-
Start	373	End	3865
Name	OJ000320_28.0419.C18.o1.gp	Method	AAT/GAP
Start	744	End	1193
GI	3760796	Score	871
Exons	744..1193		

Seq. No.	58590	Seq. ID	OJ000320_28.0419.C18
Gene No.	122365	Strand	-
Start	373	End	3865
Name	OJ000320_28.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1173	End	3865
GI	none	Score	72
Exons	1173..1235, 1178..1231, 1313..1432, 1318..1431, 2144..2269, 2158..2214, 2304..2375, 2305..2376, 2462..2539, 2469..2522, 3122..3250, 3141..3251, 3156..3251, 3160..3252, 3347..3424, 3356..3421, 3357..3428, 3581..3667, 3587..3667, 3591..3671, 3761..3865, 3762..3863, 3796..3864		

Seq. No.	58590	Seq. ID	OJ000320_28.0419.C18
Gene No.	122365	Strand	-
Start	373	End	3865
Name	OJ000320_28.0419.C18.o1.np	Method	AAT/NAP
Start	1181	End	3865
GI	2117355	Score	569

Exons	1181..1230, 1317..1429, 2159..2208, 2304..2374, 2468..2539, 3155..3252, 3356..3422, 3590..3670, 3758..3865		
GI Descrip.	mitochondrial processing peptidase (EC 3.4.99.41) alpha-II chain precursor - potato gi|587562|emb|CAA56520| (X80236) mitochondrial processing peptidase [Solanum tuberosum]		

Seq. No.	58590	Seq. ID	OJ000320_28.0419.C18
Gene No.	122365	Strand	-
Start	373	End	3865
Name	OJ000320_28.0419.C18.o2.gp	Method	AAT/GAP
Start	2492	End	3865
GI	286522	Score	699
Exons	2492..2539, 3155..3252, 3356..3422, 3590..3670, 3758..3865		
GI Descrip.	266567/sp|P29677|MPPA_SOLTU 3.0e-50 MITOCHONDRIAL PROCESSING PEPTIDASE ALPHA SUBUNIT PRECURSOR (ALPHA-MPP) (UBIQUINOL-CYTOCHROME C REDUCTASE SUBUNIT II) >gi_421956_pir__S23558 mitochondrial processing peptidase (EC 3.4.99.41) alpha chain precursor - potato >gi_21493_emb_CAA46990_ (X66284) mitochondrial processing peptidase [Solanum tuberosum]		

Seq. No.	58590	Seq. ID	OJ000320_28.0419.C18
Gene No.	122365	Strand	-
Start	373	End	3865
Name	OJ000320_28.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	3173	End	3865
GI	none	Score	46
Exons	3173..3250, 3581..3667, 3587..3649, 3597..3671, 3761..3865, 3770..3859, 3780..3863		

Seq. No.	58591	Seq. ID	OJ000320_28.0419.C21
Gene No.	122366	Strand	-
Start	18	End	348
Name	OJ000320_28.0419.C21.o1.np	Method	AAT/NAP
Start	18	End	174
GI	7363271	Score	141
Exons	18..174		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	58591	Seq. ID	OJ000320_28.0419.C21
Gene No.	122366	Strand	-
Start	18	End	348
Name	OJ000320_28.0419.C21.o1.gs	Method	GENSCAN
Start	42	End	348
GI	none	Score	.48
Exons	42..111, 325..348		

Seq. No.	58592	Seq. ID	OJ000320_28.0419.C23
Gene No.	122367	Strand	+
Start	48	End	611
Name	OJ000320_28.0419.C23.o1.gs	Method	GENSCAN
Start	48	End	611
GI	none	Score	.44
Exons	48..287, 593..611		

Seq. No.	58592	Seq. ID	OJ000320_28.0419.C23
Gene No.	122368	Strand	+

Start	640	End	799
Name	OJ000320_28.0419.C23.o1.gp	Method	AAT/GAP
Start	640	End	799
GI	5005099	Score	289
Exons	640..799		

Seq. No.	58592	Seq. ID	OJ000320_28.0419.C23
Gene No.	122369	Strand	-
Start	1	End	1340
Name	OJ000320_28.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1340
GI	7487784	Score	244
Exons	1..29, 801..1025, 1091..1340		
GI Descrip.	hypothetical protein T6K22.50 - Arabidopsis thaliana gi|3402751|emb|CAA20197.1| (AL031187) putative protein [Arabidopsis thaliana] gi|7268928|emb|CAB79131.1| (AL161554) putative protein [Arabidopsis thaliana]		

Seq. No.	58592	Seq. ID	OJ000320_28.0419.C23
Gene No.	122369	Strand	-
Start	1	End	1340
Name	OJ000320_28.0419.C23.o2.gs	Method	GENSCAN
Start	835	End	1269
GI	none	Score	.58
Exons	835..954, 1198..1269		

Seq. No.	58592	Seq. ID	OJ000320_28.0419.C23
Gene No.	122369	Strand	-
Start	1	End	1340
Name	OJ000320_28.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	886	End	1338
GI	none	Score	73
Exons	886..954, 889..954, 890..955, 1106..1132, 1112..1243, 1132..1335, 1133..1336, 1135..1338		

Seq. No.	58592	Seq. ID	OJ000320_28.0419.C23
Gene No.	122369	Strand	-
Start	1	End	1340
Name	OJ000320_28.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	886	End	1336
GI	none	Score	64
Exons	886..957, 892..954, 1117..1335, 1133..1336		

Seq. No.	58593	Seq. ID	OJ000320_28.0419.C24
Gene No.	122370	Strand	-
Start	360	End	627
Name	OJ000320_28.0419.C24.o1.gs	Method	GENSCAN
Start	360	End	627
GI	none	Score	.76
Exons	360..405, 523..627		

Seq. No.	58594	Seq. ID	OJ000320_28.0419.C26
Gene No.	122371	Strand	+
Start	1	End	1000
Name	OJ000320_28.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1000
GI	7228457	Score	1556

Exons	1..1000		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	58594	Seq. ID	OJ000320_28.0419.C26
Gene No.	122371	Strand	+
Start	1	End	1000
Name	OJ000320_28.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	14	End	304
GI	none	Score	64
Exons	14..64, 31..192, 47..304		
Seq. No.	58594	Seq. ID	OJ000320_28.0419.C26
Gene No.	122371	Strand	+
Start	1	End	1000
Name	OJ000320_28.0419.C26.o1.gs	Method	GENSCAN
Start	89	End	930
GI	none	Score	.53
Exons	89..930		
Seq. No.	58595	Seq. ID	OJ000320_28.0419.C29
Gene No.	122372	Strand	-
Start	1519	End	1597
Name	OJ000320_28.0419.C29.o1.gs	Method	GENSCAN
Start	1519	End	1597
GI	none	Score	.76
Exons	1519..1597		
Seq. No.	58595	Seq. ID	OJ000320_28.0419.C29
Gene No.	122373	Strand	-
Start	1818	End	1965
Name	OJ000320_28.0419.C29.o1.gp	Method	AAT/GAP
Start	1818	End	1965
GI	3769020	Score	278
Exons	1818..1965		
GI Descrip.	3789942 8.0e-27 (AF093505) polyubiquitin [Saccharum hybrid cultivar H32-8560]		
Seq. No.	58596	Seq. ID	OJ000320_28.0419.C32
Gene No.	122374	Strand	-
Start	590	End	1378
Name	OJ000320_28.0419.C32.o1.gs	Method	GENSCAN
Start	590	End	1168
GI	none	Score	.58
Exons	590..1168		
Seq. No.	58596	Seq. ID	OJ000320_28.0419.C32
Gene No.	122374	Strand	-
Start	590	End	1378
Name	OJ000320_28.0419.C32.o1.np	Method	AAT/NAP
Start	644	End	1095
GI	4835797	Score	509
Exons	644..1095		
GI Descrip.	(AC007296) Strong similarity to gb|U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF|00067 Cytochrome P450 family. ESTs gb|Z30775 and gb|Z30776 come from this gene		

Seq. No.	58596	Seq. ID	OJ000320_28.0419.C32
Gene No.	122374	Strand	-
Start	590	End	1378
Name	OJ000320_28.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	647	End	1093
GI	none	Score	72
Exons	647..877, 750..878, 873..1076, 875..1093		

Seq. No.	58596	Seq. ID	OJ000320_28.0419.C32
Gene No.	122374	Strand	-
Start	590	End	1378
Name	OJ000320_28.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	647	End	1096
GI	none	Score	65
Exons	647..883, 750..884, 873..1079, 875..1096		

Seq. No.	58596	Seq. ID	OJ000320_28.0419.C32
Gene No.	122374	Strand	-
Start	590	End	1378
Name	OJ000320_28.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	647	End	908
GI	none	Score	251
Exons	647..904, 672..908		

Seq. No.	58596	Seq. ID	OJ000320_28.0419.C32
Gene No.	122374	Strand	-
Start	590	End	1378
Name	OJ000320_28.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	653	End	1015
GI	none	Score	156
Exons	653..715, 678..1004, 725..1015		

Seq. No.	58596	Seq. ID	OJ000320_28.0419.C32
Gene No.	122374	Strand	-
Start	590	End	1378
Name	OJ000320_28.0419.C32.o1.gp	Method	AAT/GAP
Start	899	End	1378
GI	2800702	Score	857
Exons	899..1378		
GI Descrip.	4835797/gb|AAD30263.1|AC007296_24 5.0e-23 (AC007296) Strong similarity to gb_U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF_00067 Cytochrome P450 family. ESTs gb_Z30775 and gb_Z30776 come from this gene		

Seq. No.	58597	Seq. ID	OJ000320_28.0419.C33
Gene No.	122375	Strand	-
Start	1	End	415
Name	OJ000320_28.0419.C33.o1.gp	Method	AAT/GAP
Start	1	End	147
GI	uC-osflm202107f10b1	Score	282
Exons	1..147		
GI Descrip.	'4835797/gb|AAD30263.1|AC007296_24 9.0e-38 (AC007296) Strong similarity to gb_U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF_00067 Cytochrome P450 family. ESTs gb_Z30775 and gb_Z30776 come from this gene'		

Seq. No.	58597	Seq. ID	OJ000320_28.0419.C33
Gene No.	122375	Strand	-
Start	1	End	415
Name	OJ000320_28.0419.C33.o1.gs	Method	GENSCAN
Start	16	End	415
GI	none	Score	.59
Exons	16..251, 395..415		

Seq. No.	58598	Seq. ID	OJ000320_28.0419.C35
Gene No.	122376	Strand	-
Start	432	End	730
Name	OJ000320_28.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	428	End	583
GI	none	Score	160
Exons	428..550, 431..583, 432..557		

Seq. No.	58598	Seq. ID	OJ000320_28.0419.C35
Gene No.	122376	Strand	-
Start	432	End	730
Name	OJ000320_28.0419.C35.o1.gp	Method	AAT/GAP
Start	432	End	667
GI	42486_1.R1084	Score	431
Exons	432..667		
GI Descrip.	'2146739/pir||S71205 8.0e-57 hexokinase (EC 2.7.1.1) 1 - Arabidopsis thaliana >gi_881521 (U28214) hexokinase 1 [Arabidopsis thaliana] >gi_4972059_emb_CAB43927.1_ (AL078470) hexokinase [Arabidopsis thaliana]'		

Seq. No.	58598	Seq. ID	OJ000320_28.0419.C35
Gene No.	122376	Strand	-
Start	432	End	730
Name	OJ000320_28.0419.C35.o1.gs	Method	GENSCAN
Start	432	End	730
GI	none	Score	.97
Exons	432..730		

Seq. No.	58598	Seq. ID	OJ000320_28.0419.C35
Gene No.	122376	Strand	-
Start	432	End	730
Name	OJ000320_28.0419.C35.o1.np	Method	AAT/NAP
Start	432	End	730
GI	6594672	Score	114
Exons	432..601, 629..730		
GI Descrip.	(AF118132) chloroplast outer envelope hexokinase 1 [Spinacia oleracea]		

Seq. No.	58599	Seq. ID	OJ000320_28.0419.C36
Gene No.	122377	Strand	-
Start	1800	End	2332
Name	OJ000320_28.0419.C36.o1.np	Method	AAT/NAP
Start	1800	End	2332
GI	5042454	Score	278
Exons	1800..2332		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58600	Seq. ID	OJ000320_28.0419.C37
Gene No.	122378	Strand	+

Start	1	End	950
Name	OJ000320_28.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	950
GI	4680209	Score	337
Exons	1..156, 265..612, 849..950		
GI Descrip.	(AF114171) unknown [Sorghum bicolor]		

Seq. No.	58600	Seq. ID	OJ000320_28.0419.C37
Gene No.	122378	Strand	+
Start	1	End	950
Name	OJ000320_28.0419.C37.o1.gs	Method	GENSCAN
Start	80	End	931
GI	none	Score	.63
Exons	80..603, 710..931		

Seq. No.	58601	Seq. ID	OJ000320_28.0419.C38
Gene No.	122379	Strand	-
Start	1	End	1378
Name	OJ000320_28.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	1378
GI	7446445	Score	384
Exons	1..67, 238..804, 1337..1378		
GI Descrip.	serine/threonine-specific protein kinase (EC 2.7.1.-) lrrpk - Arabidopsis thaliana gi|4938475|emb|CAB43834.1| (AL078464) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana] gi|7269899|emb|CAB80992.1| (AL161576) serine/threonine-specific receptor protein kinase LRRPK [Arabidopsis thaliana]		

Seq. No.	58601	Seq. ID	OJ000320_28.0419.C38
Gene No.	122379	Strand	-
Start	1	End	1378
Name	OJ000320_28.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	3	End	798
GI	none	Score	112
Exons	3..62, 299..553, 336..554, 566..745, 576..746, 745..798		

Seq. No.	58601	Seq. ID	OJ000320_28.0419.C38
Gene No.	122379	Strand	-
Start	1	End	1378
Name	OJ000320_28.0419.C38.o1.gs	Method	GENSCAN
Start	219	End	970
GI	none	Score	.81
Exons	219..760, 771..835, 880..970		

Seq. No.	58601	Seq. ID	OJ000320_28.0419.C38
Gene No.	122379	Strand	-
Start	1	End	1378
Name	OJ000320_28.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	437	End	623
GI	none	Score	49
Exons	437..484, 438..473, 488..622, 489..623		

Seq. No.	58601	Seq. ID	OJ000320_28.0419.C38
Gene No.	122379	Strand	-
Start	1	End	1378
Name	OJ000320_28.0419.C38.o1.ts	Method	TBLASTX:Soybean

Start	470	End	771
GI	none	Score	64
Exons	470..637, 480..605, 635..730, 748..771		

Seq. No.	58602	Seq. ID	OJ000320_28.0419.C40
Gene No.	122380	Strand	+
Start	1	End	471
Name	OJ000320_28.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	309
GI	400989	Score	182
Exons	1..309		
GI Descrip.	50S RIBOSOMAL PROTEIN L24, CHLOROPLAST PRECURSOR (CL24) gi|322771|pir||A45113 ribosomal protein L24 precursor - common tobacco gi|170273|gb|AAA34086.1| (M87838) ribosomal protein L24 [Nicotiana tabacum] gi|170324|gb|AAA34114.1| (M87839) ribosomal protein L24 [Nicotiana tabacum]		

Seq. No.	58602	Seq. ID	OJ000320_28.0419.C40
Gene No.	122380	Strand	+
Start	1	End	471
Name	OJ000320_28.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	99	End	265
GI	none	Score	75
Exons	99..257, 104..265, 106..255		

Seq. No.	58602	Seq. ID	OJ000320_28.0419.C40
Gene No.	122380	Strand	+
Start	1	End	471
Name	OJ000320_28.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	104	End	256
GI	none	Score	215
Exons	104..256, 104..256		

Seq. No.	58602	Seq. ID	OJ000320_28.0419.C40
Gene No.	122380	Strand	+
Start	1	End	471
Name	OJ000320_28.0419.C40.o1.gp	Method	AAT/GAP
Start	107	End	471
GI	4464_1.R1084	Score	698
Exons	107..471		
GI Descrip.	'400989/sp|Q02764|RK24_TOBAC 2.0e-54 50S RIBOSOMAL PROTEIN L24, CHLOROPLAST PRECURSOR (CL24) >gi_322771_pir__A45113 ribosomal protein L24 precursor - common tobacco >gi_170273 (M87838) ribosomal protein L24 [Nicotiana tabacum] >gi_170324 (M87839) ribosomal protein L24 [Nicotiana tabacum]'		

Seq. No.	58602	Seq. ID	OJ000320_28.0419.C40
Gene No.	122380	Strand	+
Start	1	End	471
Name	OJ000320_28.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	107	End	328
GI	none	Score	263
Exons	107..271, 107..328		

Seq. No.	58603	Seq. ID	OJ000320_28.0419.C42
Gene No.	122381	Strand	-
Start	1	End	428

Name	OJ000320_28.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	428
GI	7229683	Score	196
Exons	1..89, 236..428		
GI Descrip.	(AF234170) DMC1 protein [Hordeum vulgare]		

Seq. No.	58603	Seq. ID	OJ000320_28.0419.C42
Gene No.	122381	Strand	-
Start	1	End	428
Name	OJ000320_28.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	18	End	337
GI	none	Score	76
Exons	18..92, 18..89, 19..93, 20..91, 235..318, 236..325, 236..337, 237..332		

Seq. No.	58604	Seq. ID	OJ000320_28.0419.C43
Gene No.	122382	Strand	+
Start	1	End	945
Name	OJ000320_28.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	945
GI	5852093	Score	33
Exons	1..61, 538..692, 920..945		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	58605	Seq. ID	OJ000320_28.0419.C44
Gene No.	122383	Strand	-
Start	1	End	1212
Name	OJ000320_28.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	1212
GI	3831457	Score	820
Exons	1..394, 487..518, 789..1062, 1140..1212		
GI Descrip.	(AC005700) putative ligand-gated ion channel subunit [Arabidopsis thaliana]		

Seq. No.	58605	Seq. ID	OJ000320_28.0419.C44
Gene No.	122383	Strand	-
Start	1	End	1212
Name	OJ000320_28.0419.C44.o1.tc	Method	TBLASTX:Cress
Start	3	End	1212
GI	none	Score	72
Exons	3..104, 7..99, 90..374, 108..401, 121..387, 785..1060, 789..1064, 1141..1212		

Seq. No.	58605	Seq. ID	OJ000320_28.0419.C44
Gene No.	122383	Strand	-
Start	1	End	1212
Name	OJ000320_28.0419.C44.o1.gs	Method	GENSCAN
Start	24	End	1066
GI	none	Score	.81
Exons	24..394, 487..518, 789..1066		

Seq. No.	58605	Seq. ID	OJ000320_28.0419.C44
Gene No.	122383	Strand	-
Start	1	End	1212
Name	OJ000320_28.0419.C44.o2.tm	Method	TBLASTX:Maize
Start	36	End	223
GI	none	Score	221

Exons	36..221, 37..222, 41..223		
Seq. No.	58605	Seq. ID	OJ000320_28.0419.C44
Gene No.	122383	Strand	-
Start	1	End	1212
Name	OJ000320_28.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	45	End	513
GI	none	Score	240
Exons	45..401, 46..390, 60..395, 487..513, 487..513		
Seq. No.	58605	Seq. ID	OJ000320_28.0419.C44
Gene No.	122383	Strand	-
Start	1	End	1212
Name	OJ000320_28.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	224	End	1079
GI	none	Score	230
Exons	224..325, 226..390, 226..390, 469..519, 487..519, 778..1008, 785..1060, 792..1079		
Seq. No.	58605	Seq. ID	OJ000320_28.0419.C44
Gene No.	122383	Strand	-
Start	1	End	1212
Name	OJ000320_28.0419.C44.o2.ts	Method	TBLASTX:Soybean
Start	781	End	1212
GI	none	Score	166
Exons	781..849, 783..959, 788..958, 926..1060, 927..1079, 1141..1212, 1142..1210		
Seq. No.	58606	Seq. ID	OJ000320_28.0419.C46
Gene No.	122384	Strand	-
Start	501	End	895
Name	OJ000320_28.0419.C46.o1.np	Method	AAT/NAP
Start	501	End	895
GI	4835797	Score	264
Exons	501..805, 833..895		
GI Descrip.	(AC007296) Strong similarity to gb|U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF|00067 Cytochrome P450 family. ESTs gb|Z30775 and gb|Z30776 come from this gene		
Seq. No.	58606	Seq. ID	OJ000320_28.0419.C46
Gene No.	122384	Strand	-
Start	501	End	895
Name	OJ000320_28.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	518	End	787
GI	none	Score	96
Exons	518..787, 540..692		
Seq. No.	58606	Seq. ID	OJ000320_28.0419.C46
Gene No.	122384	Strand	-
Start	501	End	895
Name	OJ000320_28.0419.C46.o1.gp	Method	AAT/GAP
Start	530	End	895
GI	44048_1.R1084	Score	540
Exons	530..895		
GI Descrip.	'4835797/gb|AAD30263.1|AC007296_24 8.0e-38 (AC007296) Strong similarity to gb_U61231 cytochrome P450 from Arabidopsis thaliana and is a member of the PF_00067 Cytochrome P450 family.		

'ESTs gb_Z30775 and gb_Z30776 come from this gene'

Seq. No.	58606	Seq. ID	OJ000320_28.0419.C46
Gene No.	122384	Strand	-
Start	501	End	895
Name	OJ000320_28.0419.C46.o1.gs	Method	GENSCAN
Start	530	End	805
GI	none	Score	1
Exons	530..805		

Seq. No.	58606	Seq. ID	OJ000320_28.0419.C46
Gene No.	122384	Strand	-
Start	501	End	895
Name	OJ000320_28.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	569	End	784
GI	none	Score	182
Exons	569..784		

Seq. No.	58607	Seq. ID	OJ000320_28.0419.C50
Gene No.	122385	Strand	+
Start	300	End	485
Name	OJ000320_28.0419.C50.o1.gs	Method	GENSCAN
Start	300	End	485
GI	none	Score	.66
Exons	300..485		

Seq. No.	58608	Seq. ID	OJ000320_28.0419.C51
Gene No.	122386	Strand	-
Start	1	End	635
Name	OJ000320_28.0419.C51.o1.gs	Method	GENSCAN
Start	1	End	623
GI	none	Score	.9
Exons	1..225, 336..433, 578..623		

Seq. No.	58608	Seq. ID	OJ000320_28.0419.C51
Gene No.	122386	Strand	-
Start	1	End	635
Name	OJ000320_28.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	635
GI	7267249	Score	104
Exons	1..94, 151..225, 336..436, 578..635		
GI Descrip.	(AL161502) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58609	Seq. ID	OJ000320_28.0419.C54
Gene No.	122387	Strand	+
Start	337	End	591
Name	OJ000320_28.0419.C54.o1.gp	Method	AAT/GAP
Start	337	End	591
GI	2311684	Score	478
Exons	337..591		

Seq. No.	58609	Seq. ID	OJ000320_28.0419.C54
Gene No.	122388	Strand	-
Start	927	End	1076
Name	OJ000320_28.0419.C54.o1.gs	Method	GENSCAN
Start	927	End	1076
GI	none	Score	.54

Exons	927..1076		
Seq. No.	58610	Seq. ID	OJ000320_28.0419.C56
Gene No.	122389	Strand	-
Start	779	End	955
Name	OJ000320_28.0419.C56.o1.gs	Method	GENSCAN
Start	779	End	955
GI	none	Score	.99
Exons	779..955		
Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122390	Strand	+
Start	1	End	4918
Name	OJ000320_28.0419.C57.o1.np	Method	AAT/NAP
Start	1	End	2724
GI	7446449	Score	786
Exons	1..24, 146..255, 650..721, 817..894, 1005..1177, 1333..1535, 1624..1748, 1872..1933, 2031..2223, 2319..2724		
GI Descrip.	serine/threonine-specific protein kinase (EC 2.7.1.-) F9F13.100 - Arabidopsis thaliana gi|5262168|emb|CAB45811.1| (AL080253) receptor protein kinase-like protein [Arabidopsis thaliana] gi|7268841|emb|CAB79045.1| (AL161553) receptor protein kinase-like protein [Arabidopsis thaliana]		
Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122390	Strand	+
Start	1	End	4918
Name	OJ000320_28.0419.C57.o1.gs	Method	GENSCAN
Start	128	End	4918
GI	none	Score	.71
Exons	128..255, 498..569, 650..721, 1005..1168, 1237..1529, 1618..1744, 1865..1933, 2031..2223, 2319..2736, 4201..4311, 4432..4479, 4826..4918		
Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122390	Strand	+
Start	1	End	4918
Name	OJ000320_28.0419.C57.o1.gp	Method	AAT/GAP
Start	1120	End	1903
GI	17918_1.R1084	Score	883
Exons	1120..1168, 1261..1529, 1618..1744, 1865..1903		
GI Descrip.	'3461839 2.0e-32 (AC005315) putative receptor protein kinase [Arabidopsis thaliana]'		
Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o2.tc	Method	TBLASTX:Cress
Start	1281	End	1758
GI	none	Score	38
Exons	1281..1403, 1410..1541, 1410..1472, 1505..1534, 1624..1758, 1629..1706		
Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o2.ts	Method	TBLASTX:Soybean

Start	1377	End	1746
GI	none	Score	95
Exons	1377..1460, 1458..1541, 1459..1539, 1621..1746, 1644..1745		

Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o1.tm	Method	TBLASTX:Maize
Start	1398	End	2409
GI	none	Score	123
Exons	1398..1541, 1621..1782, 1888..1935, 2029..2148, 2030..2149, 2167..2232, 2183..2227, 2353..2409		

Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o2.np	Method	AAT/NAP
Start	1677	End	6800
GI	5734709	Score	203
Exons	1677..1735, 4041..4132, 5763..5875, 6079..6286, 6315..6800		
GI Descrip.	(AC008075) Contains PF|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o1.tc	Method	TBLASTX:Cress
Start	2029	End	2640
GI	none	Score	189
Exons	2029..2184, 2030..2185, 2183..2227, 2191..2250, 2319..2402, 2320..2640		

Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o1.ts	Method	TBLASTX:Soybean
Start	2081	End	2562
GI	none	Score	120
Exons	2081..2185, 2083..2184, 2183..2227, 2191..2244, 2320..2562		

Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o1.tw	Method	TBLASTX:Wheat
Start	2111	End	2477
GI	none	Score	148
Exons	2111..2227, 2113..2226, 2317..2475, 2318..2431, 2319..2477		

Seq. No.	58611	Seq. ID	OJ000320_28.0419.C57
Gene No.	122391	Strand	-
Start	1677	End	6800
Name	OJ000320_28.0419.C57.o2.gp	Method	AAT/GAP
Start	4084	End	4193
GI	uC-osf1cyp088b12b1	Score	150
Exons	4084..4193		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	58612	Seq. ID	OJ000320_28.0419.C58
Gene No.	122392	Strand	+
Start	67	End	189
Name	OJ000320_28.0419.C58.o1.gs	Method	GENSCAN
Start	67	End	189
GI	none	Score	.73
Exons	67..189		

Seq. No.	58612	Seq. ID	OJ000320_28.0419.C58
Gene No.	122393	Strand	-
Start	1	End	873
Name	OJ000320_28.0419.C58.o1.gp	Method	AAT/GAP
Start	1	End	873
GI	4464_1.R1084	Score	335
Exons	1..192, 845..873		
GI Descrip.	'400989/sp|Q02764|RK24_TOBAC 2.0e-54 50S RIBOSOMAL PROTEIN L24, CHLOROPLAST PRECURSOR (CL24) >gi_322771_pir__A45113 ribosomal protein L24 precursor - common tobacco >gi_170273 (M87838) ribosomal protein L24 [Nicotiana tabacum] >gi_170324 (M87839) ribosomal protein L24 [Nicotiana tabacum]'		

Seq. No.	58613	Seq. ID	OJ000320_28.0419.C60
Gene No.	122394	Strand	-
Start	1	End	937
Name	OJ000320_28.0419.C60.o1.np	Method	AAT/NAP
Start	1	End	696
GI	6539553	Score	1167
Exons	1..696		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	58613	Seq. ID	OJ000320_28.0419.C60
Gene No.	122394	Strand	-
Start	1	End	937
Name	OJ000320_28.0419.C60.o1.gs	Method	GENSCAN
Start	105	End	937
GI	none	Score	.53
Exons	105..712, 890..937		

Seq. No.	58613	Seq. ID	OJ000320_28.0419.C60
Gene No.	122394	Strand	-
Start	1	End	937
Name	OJ000320_28.0419.C60.o1.tm	Method	TBLASTX:Maize
Start	254	End	567
GI	none	Score	297
Exons	254..559, 256..567		

Seq. No.	58613	Seq. ID	OJ000320_28.0419.C60
Gene No.	122394	Strand	-
Start	1	End	937
Name	OJ000320_28.0419.C60.o1.tw	Method	TBLASTX:Wheat
Start	316	End	702
GI	none	Score	258
Exons	316..702, 317..691		

Seq. No.	58614	Seq. ID	OJ000320_28.0419.C62
Gene No.	122395	Strand	+
Start	1	End	528
Name	OJ000320_28.0419.C62.o1.gp	Method	AAT/GAP
Start	1	End	528
GI	19497_1.R1084	Score	1022
Exons	1..528		
GI Descrip.	'678547 2.0e-42 (L13654) peroxidase [Lycopersicon esculentum]'		

Seq. No.	58614	Seq. ID	OJ000320_28.0419.C62
Gene No.	122395	Strand	+
Start	1	End	528
Name	OJ000320_28.0419.C62.o1.np	Method	AAT/NAP
Start	1	End	346
GI	678547	Score	347
Exons	1..346		
GI Descrip.	(L13654) peroxidase [Lycopersicon esculentum]		

Seq. No.	58614	Seq. ID	OJ000320_28.0419.C62
Gene No.	122396	Strand	+
Start	2105	End	2418
Name	OJ000320_28.0419.C62.o2.gp	Method	AAT/GAP
Start	2105	End	2418
GI	none	Score	586
Exons	2105..2418		

Seq. No.	58614	Seq. ID	OJ000320_28.0419.C62
Gene No.	122397	Strand	-
Start	14	End	2544
Name	OJ000320_28.0419.C62.o1.tc	Method	TBLASTX:Cress
Start	2	End	343
GI	none	Score	251
Exons	2..343, 55..123, 241..342		

Seq. No.	58614	Seq. ID	OJ000320_28.0419.C62
Gene No.	122397	Strand	-
Start	14	End	2544
Name	OJ000320_28.0419.C62.o1.ts	Method	TBLASTX:Soybean
Start	2	End	343
GI	none	Score	82
Exons	2..61, 73..123, 77..343, 238..333		

Seq. No.	58614	Seq. ID	OJ000320_28.0419.C62
Gene No.	122397	Strand	-
Start	14	End	2544
Name	OJ000320_28.0419.C62.o1.tm	Method	TBLASTX:Maize
Start	5	End	345
GI	none	Score	57
Exons	5..49, 49..96, 49..123, 50..343, 166..342, 235..345		

Seq. No.	58614	Seq. ID	OJ000320_28.0419.C62
Gene No.	122397	Strand	-
Start	14	End	2544
Name	OJ000320_28.0419.C62.o1.gs	Method	GENSCAN
Start	14	End	2544
GI	none	Score	.6

Exons	14..395, 1063..1184, 2134..2544		
Seq. No.	58615	Seq. ID	OJ000320_28.0419.C63
Gene No.	122398	Strand	+
Start	1	End	695
Name	OJ000320_28.0419.C63.o1.np	Method	AAT/NAP
Start	1	End	695
GI	6642657	Score	445
Exons	1..192, 382..695		
GI Descrip.	(AC012395) putative integral membrane protein [Arabidopsis thaliana]		
Seq. No.	58615	Seq. ID	OJ000320_28.0419.C63
Gene No.	122398	Strand	+
Start	1	End	695
Name	OJ000320_28.0419.C63.o1.tm	Method	TBLASTX:Maize
Start	1	End	209
GI	none	Score	225
Exons	1..201, 1..201, 2..208, 3..209		
Seq. No.	58615	Seq. ID	OJ000320_28.0419.C63
Gene No.	122398	Strand	+
Start	1	End	695
Name	OJ000320_28.0419.C63.o1.gs	Method	GENSCAN
Start	57	End	660
GI	none	Score	.71
Exons	57..192, 382..660		
Seq. No.	58615	Seq. ID	OJ000320_28.0419.C63
Gene No.	122398	Strand	+
Start	1	End	695
Name	OJ000320_28.0419.C63.o1.ts	Method	TBLASTX:Soybean
Start	408	End	590
GI	none	Score	181
Exons	408..590, 408..590		
Seq. No.	58616	Seq. ID	OJ000320_28.0419.C66
Gene No.	122399	Strand	+
Start	1	End	1130
Name	OJ000320_28.0419.C66.o1.np	Method	AAT/NAP
Start	1	End	1130
GI	7106515	Score	806
Exons	1..313, 394..1130		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		
Seq. No.	58616	Seq. ID	OJ000320_28.0419.C66
Gene No.	122399	Strand	+
Start	1	End	1130
Name	OJ000320_28.0419.C66.o2.tm	Method	TBLASTX:Maize
Start	49	End	339
GI	none	Score	177
Exons	49..339		
Seq. No.	58616	Seq. ID	OJ000320_28.0419.C66
Gene No.	122399	Strand	+

Start	1	End	1130
Name	OJ000320_28.0419.C66.o1.tm	Method	TBLASTX:Maize
Start	839	End	1130
GI	none	Score	272
Exons	839..1126, 840..1130		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122400	Strand	+
Start	3793	End	4602
Name	OJ000320_28.0419.C67.o1.gp	Method	AAT/GAP
Start	3793	End	4602
GI	6547_1.R1084	Score	922
Exons	3793..4178, 4383..4602		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 4.0e-52 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122401	Strand	+
Start	8645	End	12619
Name	OJ000320_28.0419.C67.o2.gp	Method	AAT/GAP
Start	8607	End	8942
GI	uC-osf1M202066h08b1	Score	632
Exons	8607..8942		
GI Descrip.	'5107831/gb|AAD40144.1|AF149413_25 4.0e-20 (AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]'		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122401	Strand	+
Start	8645	End	12619
Name	OJ000320_28.0419.C67.o4.gs	Method	GENSCAN
Start	8645	End	11889
GI	none	Score	.99
Exons	8645..11327, 11432..11889		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122401	Strand	+
Start	8645	End	12619
Name	OJ000320_28.0419.C67.o1.np	Method	AAT/NAP
Start	8675	End	11853
GI	5107831	Score	1913
Exons	8675..11327, 11432..11853		
GI Descrip.	(AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122401	Strand	+
Start	8645	End	12619
Name	OJ000320_28.0419.C67.o3.gp	Method	AAT/GAP
Start	9104	End	9559
GI	2317293	Score	883
Exons	9104..9559		
GI Descrip.	1350783/sp|P47735|RLK5_ARATH 3.0e-20 RECEPTOR-LIKE PROTEIN KINASE 5 PRECURSOR >gi_282883_pir__S27756 receptor-like protein		

kinase precursor - Arabidopsis thaliana >gi_166850 (M84660) receptor-like protein kinase [Arabidopsis thaliana] >gi_2842492_emb_CAA16889.1_ (AL021749) receptor-like protein kinase 5 precursor (RLK5) [Arabidopsis thaliana]

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122401	Strand	+
Start	8645	End	12619
Name	OJ000320_28.0419.C67.o4.gp	Method	AAT/GAP
Start	9553	End	9994
GI	2317319	Score	862
Exons	9553..9994		
GI Descrip.	5107831/gb|AAD40144.1|AF149413_25 4.0e-20 (AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122401	Strand	+
Start	8645	End	12619
Name	OJ000320_28.0419.C67.o5.gp	Method	AAT/GAP
Start	10279	End	10800
GI	LIB3475-005-P1-K1-A9	Score	1044
Exons	10279..10800		
GI Descrip.	'1350783/sp|P47735|RLK5_ARATH 3.0e-20 RECEPTOR-LIKE PROTEIN KINASE 5 PRECURSOR >gi_282883_pir__S27756 receptor-like protein kinase precursor - Arabidopsis thaliana >gi_166850 (M84660) receptor-like protein kinase [Arabidopsis thaliana] >gi_2842492_emb_CAA16889.1_ (AL021749) receptor-like protein kinase 5 precursor (RLK5) [Arabidopsis thaliana]'		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122401	Strand	+
Start	8645	End	12619
Name	OJ000320_28.0419.C67.o6.gp	Method	AAT/GAP
Start	11573	End	12619
GI	none	Score	2030
Exons	11573..12619		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122402	Strand	-
Start	7	End	734
Name	OJ000320_28.0419.C67.o1.gs	Method	GENSCAN
Start	7	End	734
GI	none	Score	.47
Exons	7..101, 473..734		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122403	Strand	-
Start	2203	End	3752
Name	OJ000320_28.0419.C67.o2.gs	Method	GENSCAN
Start	2203	End	3752
GI	none	Score	.76
Exons	2203..2275, 2743..3071, 3093..3752		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-

Start	12467	End	15126
Name	OJ000320_28.0419.C67.o5.tm	Method	TBLASTX:Maize
Start	3748	End	4095
GI	none	Score	65
Exons	3748..3840, 3763..3819, 3818..3958, 3819..3854, 3824..3946, 3948..3983, 3962..3994, 3963..3995, 4049..4093, 4050..4094, 4054..4095		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	8831	End	11724
GI	none	Score	43
Exons	8831..8857, 8864..9076, 8873..9118, 8876..9085, 8882..9121, 8957..9151, 9020..9502, 9089..9232, 9089..9274, 9089..9274, 9089..9274, 9089..9232, 9092..9274, 9095..9274, 9095..9274, 9119..9274, 9263..9502, 9263..9502, 9278..9502, 9278..9502, 9278..9451, 9278..9511, 9278..9502, 9278..9511, 9395..9586, 9467..9703, 9479..9739, 9518..9733, 9521..9670, 9530..9736, 9530..9739, 9533..9736, 9542..9733, 9545..9586, 9553..9651, 9575..9727, 9617..9724, 9630..9722, 9635..9733, 9635..9724, 9641..9748, 9674..9931, 9701..9730, 9743..9994, 9746..9994, 9752..9979, 9752..9994, 9752..9808, 9752..9994, 9758..9943, 9779..9970, 9824..10027, 10034..10084, 10061..10087, 10100..10147, 10106..10150, 10163..10387, 10163..10387, 10163..10327, 10175..10495, 10175..10384, 10175..10453, 10175..10366, 10175..10387, 10181..10390, 10183..10494, 10192..10398, 10204..10452, 10235..10384, 10385..10444, 10652..10795, 10895..11041, 10933..11034, 11093..11278, 11152..11253, 11275..11325, 11276..11326, 11430..11534, 11431..11526, 11617..11724		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	8906	End	11724
GI	none	Score	91
Exons	8906..9067, 9329..9517, 9767..9943, 10190..10366, 10265..10387, 10466..10492, 10684..10788, 10685..10795, 10895..11041, 10918..11016, 11093..11326, 11140..11178, 11196..11207, 11242..11325, 11430..11513, 11431..11517, 11647..11724		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o3.tm	Method	TBLASTX:Maize
Start	9191	End	10580
GI	none	Score	64
Exons	9191..9316, 9686..9736, 9815..9886, 9848..9931, 10166..10210, 10253..10354, 10264..10356, 10264..10353, 10269..10400, 10302..10355, 10319..10381, 10361..10558, 10364..10474, 10399..10542, 10539..10580		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-

Start	12467	End	15126
Name	OJ000320_28.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	10370	End	10761
GI	none	Score	231
Exons	10370..10567, 10370..10474, 10372..10542, 10550..10648, 10624..10761, 10643..10759		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o4.tm	Method	TBLASTX:Maize
Start	10874	End	11101
GI	none	Score	278
Exons	10874..11071, 10884..10922, 10895..10945, 10918..11070, 11029..11100, 11030..11101		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o3.tw	Method	TBLASTX:Wheat
Start	10895	End	11230
GI	none	Score	155
Exons	10895..11041, 10918..11016, 11092..11178, 11093..11230, 11141..11224		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	11168	End	11739
GI	none	Score	247
Exons	11168..11326, 11168..11326, 11430..11738, 11431..11739, 11641..11739		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o2.tm	Method	TBLASTX:Maize
Start	12119	End	15082
GI	none	Score	63
Exons	12119..12208, 12159..12209, 12159..12209, 12256..12291, 12259..12369, 12261..12320, 12264..12383, 12459..12815, 12467..12820, 12468..12815, 12871..12990, 12905..13000, 13476..13613, 13477..13614, 13478..13612, 13686..13790, 13689..13790, 13693..13791, 13920..14081, 13922..14080, 14175..14324, 14245..14325, 14245..14325, 14252..14326, 14264..14326, 14661..14846, 14662..14847, 14928..15077, 14930..15079, 15020..15082		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o2.np	Method	AAT/NAP
Start	12452	End	15126
GI	1899025	Score	1183
Exons	12452..12814, 12907..12988, 13478..13608, 13692..13790, 13925..14080, 14250..14324, 14664..14846, 14930..15126		

GI Descrip. (U28215) hexokinase 2 [Arabidopsis thaliana] gi|3687232|gb|AAC62130.1| (AC005169) hexokinase (ATHXK2) [Arabidopsis thaliana]

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o5.gs	Method	GENSCAN
Start	12467	End	15080
GI	none	Score	.9
Exons	12467..12814, 12907..12988, 13478..13608, 13692..13790, 14250..14324, 14664..14846, 14930..15080		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o2.ts	Method	TBLASTX:Soybean
Start	12470	End	15079
GI	none	Score	134
Exons	12470..12661, 12471..12656, 12692..12820, 12728..12817, 12898..12990, 12899..12991, 13477..13614, 13478..13612, 13686..13790, 13693..13791, 13920..14081, 13922..14080, 14175..14324, 14245..14325, 14311..14325, 14661..14849, 14662..14847, 14933..15079, 14934..15077		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o2.tw	Method	TBLASTX:Wheat
Start	12470	End	12728
GI	none	Score	159
Exons	12470..12676, 12471..12677, 12666..12728, 12692..12727		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o2.tc	Method	TBLASTX:Cress
Start	12476	End	15079
GI	none	Score	98
Exons	12476..12670, 12489..12656, 12648..12815, 12692..12820, 12904..12990, 12905..13000, 13477..13614, 13478..13612, 13689..13790, 13693..13791, 13920..14081, 13922..14080, 14175..14324, 14245..14325, 14661..14846, 14662..14847, 14673..14849, 14933..15079, 14934..15077, 14941..15078		

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o7.gp	Method	AAT/GAP
Start	13472	End	14341
GI	uC-osflm202110b09b1	Score	832
Exons	13472..13608, 13692..13790, 13925..14080, 14250..14341		

GI Descrip. '2146739/pir||S71205 9.0e-61 hexokinase (EC 2.7.1.1) 1 - Arabidopsis thaliana >gi_881521 (U28214) hexokinase 1 [Arabidopsis thaliana] >gi_4972059_emb_CAB43927.1_ (AL078470) hexokinase [Arabidopsis thaliana]'

Seq. No.	58617	Seq. ID	OJ000320_28.0419.C67
Gene No.	122404	Strand	-
Start	12467	End	15126
Name	OJ000320_28.0419.C67.o8.gp	Method	AAT/GAP
Start	14686	End	15080
GI	42486_1.R1084	Score	580
Exons	14686..14846, 14930..15080		
GI Descrip.	'2146739/pir||S71205 8.0e-57 hexokinase (EC 2.7.1.1) 1 - Arabidopsis thaliana >gi_881521 (U28214) hexokinase 1 [Arabidopsis thaliana] >gi_4972059_emb_CAB43927.1_ (AL078470) hexokinase [Arabidopsis thaliana]'		

Seq. No.	58618	Seq. ID	OJ000320_28.0419.C71
Gene No.	122405	Strand	+
Start	1	End	766
Name	OJ000320_28.0419.C71.o1.np	Method	AAT/NAP
Start	1	End	766
GI	7228457	Score	1128
Exons	1..520, 584..766		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58618	Seq. ID	OJ000320_28.0419.C71
Gene No.	122405	Strand	+
Start	1	End	766
Name	OJ000320_28.0419.C71.o1.tw	Method	TBLASTX:Wheat
Start	17	End	712
GI	none	Score	364
Exons	17..424, 136..396, 515..712, 515..697, 568..711		

Seq. No.	58618	Seq. ID	OJ000320_28.0419.C71
Gene No.	122405	Strand	+
Start	1	End	766
Name	OJ000320_28.0419.C71.o1.gs	Method	GENSCAN
Start	45	End	583
GI	none	Score	.91
Exons	45..583		

Seq. No.	58618	Seq. ID	OJ000320_28.0419.C71
Gene No.	122405	Strand	+
Start	1	End	766
Name	OJ000320_28.0419.C71.o1.tm	Method	TBLASTX:Maize
Start	550	End	729
GI	none	Score	178
Exons	550..729, 554..727		

Seq. No.	58619	Seq. ID	OJ000320_28.0419.C72
Gene No.	122406	Strand	+
Start	1	End	2268
Name	OJ000320_28.0419.C72.o1.np	Method	AAT/NAP
Start	1	End	2268
GI	7228457	Score	3539
Exons	1..1122, 1189..2268		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58619	Seq. ID	OJ000320_28.0419.C72
Gene No.	122406	Strand	+
Start	1	End	2268
Name	OJ000320_28.0419.C72.o1.gs	Method	GENSCAN
Start	44	End	2187
GI	none	Score	.78
Exons	44..2187		

Seq. No.	58619	Seq. ID	OJ000320_28.0419.C72
Gene No.	122406	Strand	+
Start	1	End	2268
Name	OJ000320_28.0419.C72.o2.tw	Method	TBLASTX:Wheat
Start	640	End	1101
GI	none	Score	234
Exons	640..891, 667..891, 732..905, 952..1101, 961..1098, 963..1100		

Seq. No.	58619	Seq. ID	OJ000320_28.0419.C72
Gene No.	122406	Strand	+
Start	1	End	2268
Name	OJ000320_28.0419.C72.o1.ts	Method	TBLASTX:Soybean
Start	790	End	1356
GI	5666795	Score	68
Exons	790..888, 964..1101, 1156..1356		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	58619	Seq. ID	OJ000320_28.0419.C72
Gene No.	122406	Strand	+
Start	1	End	2268
Name	OJ000320_28.0419.C72.o3.tw	Method	TBLASTX:Wheat
Start	1104	End	1416
GI	none	Score	192
Exons	1104..1280, 1156..1416		

Seq. No.	58619	Seq. ID	OJ000320_28.0419.C72
Gene No.	122406	Strand	+
Start	1	End	2268
Name	OJ000320_28.0419.C72.o1.tm	Method	TBLASTX:Maize
Start	1609	End	1932
GI	none	Score	358
Exons	1609..1932, 1638..1919		

Seq. No.	58619	Seq. ID	OJ000320_28.0419.C72
Gene No.	122406	Strand	+
Start	1	End	2268
Name	OJ000320_28.0419.C72.o1.tw	Method	TBLASTX:Wheat
Start	1746	End	2127
GI	none	Score	369
Exons	1746..1802, 1747..2127, 1848..2096		

Seq. No.	58620	Seq. ID	OJ000320_28.0419.C74
Gene No.	122407	Strand	+
Start	1	End	717
Name	OJ000320_28.0419.C74.o1.np	Method	AAT/NAP
Start	1	End	717
GI	6642657	Score	503
Exons	1..484, 575..717		

GI Descrip.	(AC012395) putative integral membrane protein [Arabidopsis thaliana]		
Seq. No.	58620	Seq. ID	OJ000320_28.0419.C74
Gene No.	122407	Strand	+
Start	1	End	717
Name	OJ000320_28.0419.C74.o1.ts	Method	TBLASTX:Soybean
Start	1	End	175
GI	none	Score	88
Exons	1..174, 2..175, 11..160, 13..171		
Seq. No.	58620	Seq. ID	OJ000320_28.0419.C74
Gene No.	122407	Strand	+
Start	1	End	717
Name	OJ000320_28.0419.C74.o1.tm	Method	TBLASTX:Maize
Start	2	End	676
GI	none	Score	316
Exons	2..277, 8..274, 13..276, 271..489, 276..338, 280..465, 281..481, 378..488, 511..675, 574..672, 587..676		
Seq. No.	58620	Seq. ID	OJ000320_28.0419.C74
Gene No.	122407	Strand	+
Start	1	End	717
Name	OJ000320_28.0419.C74.o1.tc	Method	TBLASTX:Cress
Start	247	End	717
GI	none	Score	199
Exons	247..465, 356..484, 514..717, 575..715		
Seq. No.	58620	Seq. ID	OJ000320_28.0419.C74
Gene No.	122407	Strand	+
Start	1	End	717
Name	OJ000320_28.0419.C74.o2.ts	Method	TBLASTX:Soybean
Start	355	End	487
GI	none	Score	183
Exons	355..462, 356..487		
Seq. No.	58621	Seq. ID	OJ000320_28.0419.C75
Gene No.	122408	Strand	-
Start	245	End	1784
Name	OJ000320_28.0419.C75.o1.gs	Method	GENSCAN
Start	245	End	1784
GI	none	Score	.5
Exons	245..876, 1652..1784		
Seq. No.	58622	Seq. ID	OJ000320_28.0419.C76
Gene No.	122409	Strand	+
Start	1	End	508
Name	OJ000320_28.0419.C76.o1.np	Method	AAT/NAP
Start	1	End	505
GI	7248403	Score	753
Exons	1..505		
GI Descrip.	(AP001389) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]		
Seq. No.	58622	Seq. ID	OJ000320_28.0419.C76
Gene No.	122409	Strand	+
Start	1	End	508

Name	OJ000320_28.0419.C76.o1.gs	Method	GENSCAN
Start	11	End	508
GI	none	Score	1
Exons	11..508		

Seq. No.	58622	Seq. ID	OJ000320_28.0419.C76
Gene No.	122409	Strand	+
Start	1	End	508
Name	OJ000320_28.0419.C76.o1.ts	Method	TBLASTX:Soybean
Start	26	End	295
GI	none	Score	73
Exons	26..97, 125..295		

Seq. No.	58622	Seq. ID	OJ000320_28.0419.C76
Gene No.	122409	Strand	+
Start	1	End	508
Name	OJ000320_28.0419.C76.o1.tc	Method	TBLASTX:Cress
Start	122	End	430
GI	none	Score	219
Exons	122..430		

Seq. No.	58622	Seq. ID	OJ000320_28.0419.C76
Gene No.	122409	Strand	+
Start	1	End	508
Name	OJ000320_28.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	125	End	484
GI	none	Score	276
Exons	125..484, 134..280, 349..456		

Seq. No.	58623	Seq. ID	OJ000320_28.0419.C77
Gene No.	122410	Strand	-
Start	39	End	616
Name	OJ000320_28.0419.C77.o1.gs	Method	GENSCAN
Start	39	End	616
GI	none	Score	.52
Exons	39..616		

Seq. No.	58624	Seq. ID	OJ000320_28.0419.C78
Gene No.	122411	Strand	-
Start	120	End	1623
Name	OJ000320_28.0419.C78.o1.gs	Method	GENSCAN
Start	120	End	1623
GI	none	Score	.71
Exons	120..187, 1548..1623		

Seq. No.	58625	Seq. ID	OJ000320_28.0419.C79
Gene No.	122412	Strand	-
Start	54	End	187
Name	OJ000320_28.0419.C79.o1.gp	Method	AAT/GAP
Start	54	End	187
GI	2280990	Score	242
Exons	54..187		

Seq. No.	58625	Seq. ID	OJ000320_28.0419.C79
Gene No.	122413	Strand	-
Start	127	End	661
Name	OJ000320_28.0419.C79.o1.gs	Method	GENSCAN

Start	127	End	661
GI	none	Score	.79
Exons	127..198, 289..661		

Seq. No.	58626	Seq. ID	OJ000320_28.0419.C80
Gene No.	122414	Strand	+
Start	1	End	299
Name	OJ000320_28.0419.C80.o1.gp	Method	AAT/GAP
Start	1	End	299
GI	3767157	Score	549
Exons	1..299		

Seq. No.	58626	Seq. ID	OJ000320_28.0419.C80
Gene No.	122415	Strand	+
Start	1114	End	9432
Name	OJ000320_28.0419.C80.o1.gs	Method	GENSCAN
Start	1114	End	5492
GI	none	Score	.58
Exons	1114..1257, 1262..1676, 1903..1943, 2079..2352, 3675..3766, 3796..3898, 4255..4548, 5088..5193, 5256..5322, 5418..5492		

Seq. No.	58626	Seq. ID	OJ000320_28.0419.C80
Gene No.	122415	Strand	+
Start	1114	End	9432
Name	OJ000320_28.0419.C80.o1.np	Method	AAT/NAP
Start	4063	End	9432
GI	2129478	Score	78
Exons	4063..4428, 4480..4527, 6108..6176, 9403..9432		
GI Descrip.	chitinase (EC 3.2.1.14) precursor - beet gi|488731|emb|CAA55883| (X79301) chitinase [Beta vulgaris] gi|829258|emb|CAA56946| (X81056) Chitinase [Beta vulgaris]		

Seq. No.	58626	Seq. ID	OJ000320_28.0419.C80
Gene No.	122415	Strand	+
Start	1114	End	9432
Name	OJ000320_28.0419.C80.o2.np	Method	AAT/NAP
Start	4651	End	8813
GI	6721516	Score	586
Exons	4651..4711, 6406..6654, 7069..7310, 8746..8813		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	58626	Seq. ID	OJ000320_28.0419.C80
Gene No.	122416	Strand	-
Start	259	End	462
Name	OJ000320_28.0419.C80.o2.gp	Method	AAT/GAP
Start	259	End	462
GI	3767156	Score	367
Exons	259..462		

Seq. No.	58627	Seq. ID	OJ000320_28.0419.C81
Gene No.	122417	Strand	+
Start	76	End	277
Name	OJ000320_28.0419.C81.o1.gs	Method	GENSCAN
Start	76	End	277
GI	none	Score	.8
Exons	76..141, 170..277		

Seq. No.	58627	Seq. ID	OJ000320_28.0419.C81
Gene No.	122418	Strand	-
Start	964	End	1197
Name	OJ000320_28.0419.C81.o1.tm	Method	TBLASTX:Maize
Start	923	End	1182
GI	none	Score	149
Exons	923..1069, 929..1177, 970..1182		

Seq. No.	58627	Seq. ID	OJ000320_28.0419.C81
Gene No.	122418	Strand	-
Start	964	End	1197
Name	OJ000320_28.0419.C81.o2.gs	Method	GENSCAN
Start	964	End	1109
GI	none	Score	.5
Exons	964..1109		

Seq. No.	58627	Seq. ID	OJ000320_28.0419.C81
Gene No.	122418	Strand	-
Start	964	End	1197
Name	OJ000320_28.0419.C81.o1.np	Method	AAT/NAP
Start	967	End	1197
GI	6630685	Score	279
Exons	967..1197		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	58628	Seq. ID	OJ000320_28.0419.C84
Gene No.	122419	Strand	-
Start	292	End	718
Name	OJ000320_28.0419.C84.o1.gs	Method	GENSCAN
Start	292	End	651
GI	none	Score	.62
Exons	292..651		

Seq. No.	58628	Seq. ID	OJ000320_28.0419.C84
Gene No.	122419	Strand	-
Start	292	End	718
Name	OJ000320_28.0419.C84.o1.tm	Method	TBLASTX:Maize
Start	307	End	715
GI	none	Score	64
Exons	307..573, 410..562, 584..715, 592..702		

Seq. No.	58628	Seq. ID	OJ000320_28.0419.C84
Gene No.	122419	Strand	-
Start	292	End	718
Name	OJ000320_28.0419.C84.o1.np	Method	AAT/NAP
Start	340	End	718
GI	6069646	Score	251
Exons	340..718		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	58629	Seq. ID	OJ000320_28.0419.C85
Gene No.	122420	Strand	

Start	496	End	771
Name	OJ000320_28.0419.C85.o1.tm	Method	TBLASTX:Maize
Start	496	End	771
GI	none	Score	246
Exons	496..771, 522..770		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122421	Strand	+
Start	1822	End	2590
Name	OJ000320_28.0419.C87.o2.np	Method	AAT/NAP
Start	1822	End	2590
GI	4680183	Score	192
Exons	1822..1892, 2501..2590		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122422	Strand	+
Start	3283	End	3735
Name	OJ000320_28.0419.C87.o3.np	Method	AAT/NAP
Start	3283	End	3735
GI	6721560	Score	509
Exons	3283..3735		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815085|dbj|BAA90371.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122423	Strand	+
Start	3881	End	4489
Name	OJ000320_28.0419.C87.o4.np	Method	AAT/NAP
Start	3881	End	4489
GI	6721559	Score	790
Exons	3881..4328, 4357..4489		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815084|dbj|BAA90370.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122424	Strand	+
Start	5654	End	7308
Name	OJ000320_28.0419.C87.o6.np	Method	AAT/NAP
Start	5654	End	7308
GI	6721516	Score	330
Exons	5654..5715, 7068..7308		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122425	Strand	-
Start	1	End	1573
Name	OJ000320_28.0419.C87.o1.np	Method	AAT/NAP
Start	1	End	1573
GI	4416302	Score	1502
Exons	1..1573		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-

Start	5790	End	7409
Name	OJ000320_28.0419.C87.o1.tm	Method	TBLASTX:Maize
Start	125	End	986
GI	none	Score	58
Exons	125..283, 186..287, 197..253, 912..986, 914..985	296..856, 296..913, 336..914,	

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o3.tw	Method	TBLASTX:Wheat
Start	221	End	562
GI	none	Score	48
Exons	221..310, 231..284, 325..468,	332..469, 332..478, 485..562	

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o1.ts	Method	TBLASTX:Soybean
Start	344	End	805
GI	none	Score	55
Exons	344..805, 396..548, 615..776		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o1.tc	Method	TBLASTX:Cress
Start	347	End	763
GI	none	Score	198
Exons	347..763		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o1.tw	Method	TBLASTX:Wheat
Start	656	End	1222
GI	none	Score	125
Exons	656..934, 657..827, 974..1219,	990..1220, 995..1222	

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o2.tm	Method	TBLASTX:Maize
Start	990	End	1382
GI	none	Score	171
Exons	990..1262, 992..1258, 1041..1262,	1251..1382, 1253..1381	

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o2.tw	Method	TBLASTX:Wheat
Start	1292	End	1609
GI	none	Score	107
Exons	1292..1609, 1374..1607		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-

Start	5790	End	7409
Name	OJ000320_28.0419.C87.o3.tm	Method	TBLASTX:Maize
Start	1385	End	4883
GI	none	Score	76
Exons	1385..1609, 1392..1520, 1548..1604, 4746..4883		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o2.ts	Method	TBLASTX:Soybean
Start	1463	End	6776
GI	none	Score	83
Exons	1463..1513, 1538..1603, 6258..6590, 6654..6776		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o2.gs	Method	GENSCAN
Start	5790	End	7409
GI	none	Score	.91
Exons	5790..6848, 7332..7409		

Seq. No.	58630	Seq. ID	OJ000320_28.0419.C87
Gene No.	122426	Strand	-
Start	5790	End	7409
Name	OJ000320_28.0419.C87.o4.tw	Method	TBLASTX:Wheat
Start	6354	End	6743
GI	none	Score	60
Exons	6354..6596, 6594..6737, 6609..6743		

Seq. No.	58631	Seq. ID	OJ000320_28.0419.C88
Gene No.	122427	Strand	+
Start	51	End	176
Name	OJ000320_28.0419.C88.o1.gs	Method	GENSCAN
Start	51	End	176
GI	none	Score	.69
Exons	51..176		

Seq. No.	58631	Seq. ID	OJ000320_28.0419.C88
Gene No.	122428	Strand	+
Start	6876	End	7229
Name	OJ000320_28.0419.C88.o3.gs	Method	GENSCAN
Start	6876	End	7229
GI	none	Score	.62
Exons	6876..7229		

Seq. No.	58631	Seq. ID	OJ000320_28.0419.C88
Gene No.	122429	Strand	-
Start	795	End	4133
Name	OJ000320_28.0419.C88.o1.np	Method	AAT/NAP
Start	795	End	4133
GI	5803259	Score	4404
Exons	795..2291, 2367..2772, 2872..4133		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	58631	Seq. ID	OJ000320_28.0419.C88
Gene No.	122430	Strand	-

Start	4795	End	6073
Name	OJ000320_28.0419.C88.o2.np	Method	AAT/NAP
Start	4795	End	6073
GI	7523512	Score	111
Exons	4795..4930, 6048..6073		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58631	Seq. ID	OJ000320_28.0419.C88
Gene No.	122430	Strand	-
Start	4795	End	6073
Name	OJ000320_28.0419.C88.o3.np	Method	AAT/NAP
Start	4978	End	5812
GI	5922623	Score	272
Exons	4978..5048, 5216..5374, 5732..5812		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	58632	Seq. ID	OJ000320_28.0419.C89
Gene No.	122431	Strand	+
Start	42	End	1884
Name	OJ000320_28.0419.C89.o1.gs	Method	GENSCAN
Start	42	End	1844
GI	none	Score	.68
Exons	42..147, 285..394, 665..875, 1263..1632, 1728..1844		

Seq. No.	58632	Seq. ID	OJ000320_28.0419.C89
Gene No.	122431	Strand	+
Start	42	End	1884
Name	OJ000320_28.0419.C89.o1.np	Method	AAT/NAP
Start	1364	End	1884
GI	6714420	Score	90
Exons	1364..1507, 1726..1884		
GI Descrip.	(AC012328) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58632	Seq. ID	OJ000320_28.0419.C89
Gene No.	122431	Strand	+
Start	42	End	1884
Name	OJ000320_28.0419.C89.o1.gp	Method	AAT/GAP
Start	1415	End	1884
GI	none	Score	661
Exons	1415..1632, 1728..1884		

Seq. No.	58632	Seq. ID	OJ000320_28.0419.C89
Gene No.	122431	Strand	+
Start	42	End	1884
Name	OJ000320_28.0419.C89.o1.tm	Method	TBLASTX:Maize
Start	1541	End	1883
GI	none	Score	85
Exons	1541..1621, 1546..1620, 1565..1621, 1579..1623, 1610..1633, 1717..1809, 1725..1841, 1730..1870, 1806..1883		

Seq. No.	58632	Seq. ID	OJ000320_28.0419.C89
Gene No.	122431	Strand	+
Start	42	End	1884
Name	OJ000320_28.0419.C89.o1.tw	Method	TBLASTX:Wheat
Start	1556	End	1880

GI	none	Score	87
Exons	1556..1633, 1564..1632, 1565..1633, 1587..1637, 1699..1806, 1701..1814, 1702..1806, 1833..1874, 1833..1880		

Seq. No.	58633	Seq. ID	OJ000320_28.0419.C90
Gene No.	122432	Strand	-
Start	1	End	2603
Name	OJ000320_28.0419.C90.o1.gp	Method	AAT/GAP
Start	1	End	243
GI	LIB3434-060-P1-K1-D4	Score	463
Exons	1..243		
GI Descrip.	'266567/sp|P29677|MPPA_SOLTU 3.0e-50 MITOCHONDRIAL PROCESSING PEPTIDASE ALPHA SUBUNIT PRECURSOR (ALPHA-MPP) (UBIQUINOL-CYTOCHROME C REDUCTASE SUBUNIT II) >gi_421956_pir__S23558 mitochondrial processing peptidase (EC 3.4.99.41) alpha chain precursor - potato >gi_21493_emb_CAA46990_ (X66284) mitochondrial processing peptidase [Solanum tuberosum]'		

Seq. No.	58633	Seq. ID	OJ000320_28.0419.C90
Gene No.	122432	Strand	-
Start	1	End	2603
Name	OJ000320_28.0419.C90.o1.np	Method	AAT/NAP
Start	1	End	2603
GI	4263787	Score	549
Exons	1..160, 450..604, 698..780, 1182..1275, 1637..1765, 2226..2603		
GI Descrip.	(AC006068) unknown protein [Arabidopsis thaliana]		

Seq. No.	58633	Seq. ID	OJ000320_28.0419.C90
Gene No.	122432	Strand	-
Start	1	End	2603
Name	OJ000320_28.0419.C90.o1.gs	Method	GENSCAN
Start	123	End	2603
GI	none	Score	.89
Exons	123..246, 554..604, 745..780, 1182..1214, 1637..1759, 2358..2603		

Seq. No.	58633	Seq. ID	OJ000320_28.0419.C90
Gene No.	122432	Strand	-
Start	1	End	2603
Name	OJ000320_28.0419.C90.o1.tm	Method	TBLASTX:Maize
Start	277	End	1237
GI	none	Score	103
Exons	277..384, 280..363, 285..383, 476..604, 498..611, 513..605, 695..778, 699..770, 709..780, 1178..1237, 1183..1236		

Seq. No.	58633	Seq. ID	OJ000320_28.0419.C90
Gene No.	122432	Strand	-
Start	1	End	2603
Name	OJ000320_28.0419.C90.o1.tc	Method	TBLASTX:Cress
Start	512	End	1290
GI	none	Score	70
Exons	512..604, 513..596, 695..778, 696..779, 1180..1290, 1187..1258		

Seq. No.	58633	Seq. ID	OJ000320_28.0419.C90
Gene No.	122432	Strand	-
Start	1	End	2603
Name	OJ000320_28.0419.C90.o1.ts	Method	TBLASTX:Soybean

Start	512	End	2475
GI	none	Score	76
Exons	512..604, 513..599, 695..778, 696..779, 1183..1290, 1187..1279, 1610..1762, 1641..1751, 1642..1767, 1652..1753, 2358..2474, 2358..2438, 2362..2475		

Seq. No.	58633	Seq. ID	OJ000320_28.0419.C90
Gene No.	122432	Strand	-
Start	1	End	2603
Name	OJ000320_28.0419.C90.o2.tm	Method	TBLASTX:Maize
Start	1610	End	2466
GI	none	Score	96
Exons	1610..1762, 1616..1762, 1635..1763, 1638..1763, 2358..2465, 2358..2438, 2359..2466		

Seq. No.	58634	Seq. ID	OJ000320_28.0419.C91
Gene No.	122433	Strand	+
Start	1022	End	1762
Name	OJ000320_28.0419.C91.o1.gs	Method	GENSCAN
Start	1022	End	1762
GI	none	Score	.65
Exons	1022..1033, 1589..1762		

Seq. No.	58635	Seq. ID	OJ000320_28.0419.C96
Gene No.	122434	Strand	+
Start	1	End	702
Name	OJ000320_28.0419.C96.o1.np	Method	AAT/NAP
Start	1	End	702
GI	6815109	Score	160
Exons	1..37, 373..702		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58635	Seq. ID	OJ000320_28.0419.C96
Gene No.	122434	Strand	+
Start	1	End	702
Name	OJ000320_28.0419.C96.o1.gs	Method	GENSCAN
Start	466	End	524
GI	none	Score	.55
Exons	466..524		

Seq. No.	58636	Seq. ID	OJ000320_28.0419.C97
Gene No.	122435	Strand	-
Start	1	End	730
Name	OJ000320_28.0419.C97.o1.np	Method	AAT/NAP
Start	1	End	730
GI	5042454	Score	825
Exons	1..479, 535..730		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58636	Seq. ID	OJ000320_28.0419.C97
Gene No.	122435	Strand	-
Start	1	End	730
Name	OJ000320_28.0419.C97.o1.gs	Method	GENSCAN
Start	88	End	637
GI	none	Score	.6
Exons	88..479, 535..637		

Seq. No.	58637	Seq. ID	OJ000330_28.0419.C1
Gene No.	122436	Strand	+
Start	1	End	1365
Name	OJ000330_28.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1365
GI	7486214	Score	227
Exons	1..232, 1191..1365		
GI Descrip.	hypothetical protein F26P21.40 - Arabidopsis thaliana gi|3688173|emb|CAA21201.1| (AL031804) putative protein [Arabidopsis thaliana] gi|7270239|emb|CAB80009.1| (AL161582) putative protein [Arabidopsis thaliana]		

Seq. No.	58637	Seq. ID	OJ000330_28.0419.C1
Gene No.	122436	Strand	+
Start	1	End	1365
Name	OJ000330_28.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	93	End	988
GI	none	Score	121
Exons	93..242, 94..237, 107..238, 823..885, 827..886, 828..890, 828..887, 884..985, 892..912, 893..925, 956..988		

Seq. No.	58637	Seq. ID	OJ000330_28.0419.C1
Gene No.	122436	Strand	+
Start	1	End	1365
Name	OJ000330_28.0419.C1.o1.gs	Method	GENSCAN
Start	110	End	1311
GI	none	Score	.69
Exons	110..235, 1143..1311		

Seq. No.	58638	Seq. ID	OJ000330_28.0419.C2
Gene No.	122437	Strand	+
Start	1	End	2138
Name	OJ000330_28.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	2138
GI	7486214	Score	900
Exons	1..126, 234..546, 913..1006, 1205..1313, 1767..2138		
GI Descrip.	hypothetical protein F26P21.40 - Arabidopsis thaliana gi|3688173|emb|CAA21201.1| (AL031804) putative protein [Arabidopsis thaliana] gi|7270239|emb|CAB80009.1| (AL161582) putative protein [Arabidopsis thaliana]		

Seq. No.	58638	Seq. ID	OJ000330_28.0419.C2
Gene No.	122437	Strand	+
Start	1	End	2138
Name	OJ000330_28.0419.C2.o1.gs	Method	GENSCAN
Start	236	End	1006
GI	none	Score	.8
Exons	236..546, 913..1006		

Seq. No.	58638	Seq. ID	OJ000330_28.0419.C2
Gene No.	122437	Strand	+
Start	1	End	2138
Name	OJ000330_28.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	351	End	2047
GI	none	Score	46
Exons	351..545, 361..408, 464..547, 902..1006, 913..1008, 944..1012, 949..1008, 1191..1313, 1204..1314, 1204..1314, 1208..1315,		

1764..2039, 1765..2040, 1915..2046, 1928..2047

Seq. No.	58638	Seq. ID	OJ000330_28.0419.C2
Gene No.	122437	Strand	+
Start	1	End	2138
Name	OJ000330_28.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	1820	End	2047
GI	none	Score	60
Exons	1820..1861, 1821..1892, 1822..2040, 1915..2046, 1928..2047		

Seq. No.	58639	Seq. ID	OJ000330_28.0419.C3
Gene No.	122438	Strand	+
Start	1	End	849
Name	OJ000330_28.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	849
GI	7486214	Score	391
Exons	1..46, 122..310, 397..643, 770..849		
GI Descrip.	hypothetical protein F26P21.40 - Arabidopsis thaliana gi|3688173|emb|CAA21201.1| (AL031804) putative protein [Arabidopsis thaliana] gi|7270239|emb|CAB80009.1| (AL161582) putative protein [Arabidopsis thaliana]		

Seq. No.	58639	Seq. ID	OJ000330_28.0419.C3
Gene No.	122438	Strand	+
Start	1	End	849
Name	OJ000330_28.0419.C3.o1.gp	Method	AAT/GAP
Start	86	End	561
GI	uC-osflcyp161e08b1	Score	628
Exons	86..310, 397..561		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	58639	Seq. ID	OJ000330_28.0419.C3
Gene No.	122438	Strand	+
Start	1	End	849
Name	OJ000330_28.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	119	End	594
GI	none	Score	305
Exons	119..313, 122..310, 393..593, 394..594, 399..587		

Seq. No.	58639	Seq. ID	OJ000330_28.0419.C3
Gene No.	122438	Strand	+
Start	1	End	849
Name	OJ000330_28.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	119	End	615
GI	none	Score	124
Exons	119..310, 121..282, 122..310, 382..615, 399..605		

Seq. No.	58639	Seq. ID	OJ000330_28.0419.C3
Gene No.	122438	Strand	+
Start	1	End	849
Name	OJ000330_28.0419.C3.o1.gs	Method	GENSCAN
Start	122	End	677
GI	none	Score	.5
Exons	122..310, 397..677		

Seq. No.	58639	Seq. ID	OJ000330_28.0419.C3

Gene No.	122438	Strand	+
Start	1	End	849
Name	OJ000330_28.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	183	End	618
GI	none	Score	75
Exons	183..299, 185..325, 185..319, 217..324, 415..618, 415..612, 426..617		

Seq. No.	58639	Seq. ID	OJ000330_28.0419.C3
Gene No.	122438	Strand	+
Start	1	End	849
Name	OJ000330_28.0419.C3.o2.gp	Method	AAT/GAP
Start	723	End	849
GI	2427656	Score	145
Exons	723..849		
GI Descrip.	3688173/emb|CAA21201| 2.0e-13 (AL031804) putative protein [Arabidopsis thaliana]		

Seq. No.	58640	Seq. ID	OJ000330_28.0419.C4
Gene No.	122439	Strand	+
Start	1	End	160
Name	OJ000330_28.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	157
GI	5922620	Score	177
Exons	1..157		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58640	Seq. ID	OJ000330_28.0419.C4
Gene No.	122439	Strand	+
Start	1	End	160
Name	OJ000330_28.0419.C4.o1.gs	Method	GENSCAN
Start	46	End	160
GI	none	Score	.99
Exons	46..160		

Seq. No.	58640	Seq. ID	OJ000330_28.0419.C4
Gene No.	122440	Strand	-
Start	296	End	375
Name	OJ000330_28.0419.C4.o2.np	Method	AAT/NAP
Start	296	End	375
GI	6630699	Score	85
Exons	296..375		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	58641	Seq. ID	OJ000330_28.0419.C5
Gene No.	122441	Strand	+
Start	129	End	487
Name	OJ000330_28.0419.C5.o1.gs	Method	GENSCAN
Start	129	End	487
GI	none	Score	.55
Exons	129..212, 464..487		

Seq. No.	58642	Seq. ID	OJ000330_28.0419.C7
Gene No.	122442	Strand	+
Start	284	End	704
Name	OJ000330_28.0419.C7.o1.gs	Method	GENSCAN
Start	284	End	676
GI	none	Score	.82
Exons	284..676		

Seq. No.	58642	Seq. ID	OJ000330_28.0419.C7
Gene No.	122442	Strand	+
Start	284	End	704
Name	OJ000330_28.0419.C7.o1.np	Method	AAT/NAP
Start	284	End	704
GI	5902444	Score	466
Exons	284..704		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	58642	Seq. ID	OJ000330_28.0419.C7
Gene No.	122443	Strand	-
Start	1	End	235
Name	OJ000330_28.0419.C7.o1.gp	Method	AAT/GAP
Start	1	End	235
GI	5816562	Score	384
Exons	1..235		
GI Descrip.	6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	58643	Seq. ID	OJ000330_28.0419.C9
Gene No.	122444	Strand	-
Start	15	End	703
Name	OJ000330_28.0419.C9.o1.gs	Method	GENSCAN
Start	15	End	703
GI	none	Score	.5
Exons	15..77, 580..703		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o1.gs	Method	GENSCAN
Start	21	End	8533
GI	none	Score	.45
Exons	21..126, 401..482, 763..1014, 1100..3333, 3424..3547, 3573..3699, 4265..4622, 5393..8533		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o2.np	Method	AAT/NAP
Start	5475	End	8555
GI	4680203	Score	1688
Exons	5475..6331, 6608..6832, 6989..8555		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555

Name	OJ000330_28.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	5525	End	5737
GI	none	Score	90
Exons	5525..5737, 5579..5737		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	5585	End	6718
GI	none	Score	64
Exons	5585..5686, 5592..5684, 5688..5807, 5717..5818, 5795..5983, 5811..5993, 6002..6718, 6090..6665		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	5819	End	6109
GI	none	Score	108
Exons	5819..5926, 5820..5927, 5939..6109, 5945..6061		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	6002	End	6427
GI	none	Score	134
Exons	6002..6427, 6090..6419		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	6359	End	6742
GI	none	Score	273
Exons	6359..6673, 6360..6674, 6674..6742		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	7247	End	7732
GI	none	Score	74
Exons	7247..7336, 7251..7340, 7340..7387, 7388..7435, 7429..7464, 7532..7621, 7533..7625, 7628..7732, 7629..7724		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o3.tw	Method	TBLASTX:Wheat
Start	7298	End	7633
GI	none	Score	57
Exons	7298..7336, 7346..7444, 7362..7433, 7490..7588, 7491..7586, 7592..7633		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10

Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	7538	End	7870
GI	none	Score	82
Exons	7538..7870, 7593..7700, 7734..7784		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	7619	End	7894
GI	none	Score	130
Exons	7619..7894, 7620..7859		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	7634	End	8227
GI	none	Score	69
Exons	7634..7759, 7635..7742, 7763..7879, 7778..7876, 7935..8225, 7937..8227		

Seq. No.	58644	Seq. ID	OJ000330_28.0419.C10
Gene No.	122445	Strand	-
Start	21	End	8555
Name	OJ000330_28.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	7937	End	8209
GI	none	Score	101
Exons	7937..8209, 7944..8192		

Seq. No.	58645	Seq. ID	OJ000330_28.0419.C11
Gene No.	122446	Strand	+
Start	2132	End	2201
Name	OJ000330_28.0419.C11.o2.gs	Method	GENSCAN
Start	2132	End	2201
GI	none	Score	.5
Exons	2132..2201		

Seq. No.	58645	Seq. ID	OJ000330_28.0419.C11
Gene No.	122447	Strand	-
Start	1266	End	1701
Name	OJ000330_28.0419.C11.o1.np	Method	AAT/NAP
Start	1266	End	1701
GI	6539570	Score	169
Exons	1266..1336, 1507..1701		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	58645	Seq. ID	OJ000330_28.0419.C11
Gene No.	122448	Strand	-
Start	1852	End	2385
Name	OJ000330_28.0419.C11.o2.np	Method	AAT/NAP
Start	1852	End	2385
GI	6630699	Score	84
Exons	1852..1958, 2360..2385		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa]		

gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. No.	58646	Seq. ID	OJ000330_28.0419.C12
Gene No.	122449	Strand	+
Start	1	End	245
Name	OJ000330_28.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	245
GI	626375	Score	78
Exons	1..97, 186..245		
GI Descrip.	probable membrane protein YIL100c-a - yeast (Saccharomyces cerevisiae) gi|558706|emb|CAA86280| (Z38125) orf, len: 112, CAI: 0.07, overlapped by orf 36949..36826 qv [Saccharomyces cerevisiae]		

Seq. No.	58646	Seq. ID	OJ000330_28.0419.C12
Gene No.	122450	Strand	-
Start	730	End	1672
Name	OJ000330_28.0419.C12.o1.gs	Method	GENSCAN
Start	730	End	1672
GI	none	Score	.96
Exons	730..802, 904..1014, 1104..1277, 1366..1672		

Seq. No.	58646	Seq. ID	OJ000330_28.0419.C12
Gene No.	122450	Strand	-
Start	730	End	1672
Name	OJ000330_28.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	936	End	1590
GI	none	Score	49
Exons	936..1016, 943..1017, 1091..1297, 1094..1288, 1522..1590		

Seq. No.	58647	Seq. ID	OJ000330_28.0419.C14
Gene No.	122451	Strand	-
Start	1	End	440
Name	OJ000330_28.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	275
GI	5430774	Score	93
Exons	1..275		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	58647	Seq. ID	OJ000330_28.0419.C14
Gene No.	122451	Strand	-
Start	1	End	440
Name	OJ000330_28.0419.C14.o1.gs	Method	GENSCAN
Start	90	End	440
GI	none	Score	.65
Exons	90..275, 358..440		

Seq. No.	58648	Seq. ID	OJ000330_28.0419.C15
Gene No.	122452	Strand	-
Start	1	End	1458
Name	OJ000330_28.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1458
GI	6815097	Score	2379
Exons	1..1458		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	58648	Seq. ID	OJ000330_28.0419.C15
Gene No.	122452	Strand	-
Start	1	End	1458
Name	OJ000330_28.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	2	End	298
GI	5509260	Score	64
Exons	2..298, 150..278, 197..280		
GI Descrip.	-		

Seq. No.	58648	Seq. ID	OJ000330_28.0419.C15
Gene No.	122452	Strand	-
Start	1	End	1458
Name	OJ000330_28.0419.C15.o1.gs	Method	GENSCAN
Start	383	End	1309
GI	none	Score	.81
Exons	383..1309		

Seq. No.	58649	Seq. ID	OJ000330_28.0419.C17
Gene No.	122453	Strand	+
Start	2812	End	3352
Name	OJ000330_28.0419.C17.o1.np	Method	AAT/NAP
Start	2812	End	3352
GI	6069646	Score	226
Exons	2812..3352		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	58649	Seq. ID	OJ000330_28.0419.C17
Gene No.	122453	Strand	+
Start	2812	End	3352
Name	OJ000330_28.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	2880	End	3318
GI	none	Score	234
Exons	2880..3077, 2881..3093, 2881..3108, 3136..3318		

Seq. No.	58649	Seq. ID	OJ000330_28.0419.C17
Gene No.	122453	Strand	+
Start	2812	End	3352
Name	OJ000330_28.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	2944	End	3309
GI	none	Score	200
Exons	2944..3309		

Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122454	Strand	+
Start	3904	End	4333
Name	OJ000330_28.0419.C18.o1.gp	Method	AAT/GAP
Start	3904	End	4333
GI	39147_1.R1084	Score	848
Exons	3904..4333		
GI Descrip.	'2911148/dbj|BAA24950| 1.0e-10 (AB005808) NADP-malic enzyme [Aloe arborescens]'		

Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	4229	End	5060
GI	none	Score	328
Exons	4229..4615, 4233..4613, 4671..4757, 4681..4761, 4845..5060, 4846..5058		

Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	4229	End	5931
GI	none	Score	159
Exons	4229..4525, 4245..4520, 4514..4603, 4515..4598, 4671..4757, 4693..4761, 4845..5087, 4846..5088, 5197..5370, 5198..5386, 5440..5469, 5462..5554, 5462..5548, 5651..5725, 5651..5725, 5835..5930, 5839..5931		

Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o3.gs	Method	GENSCAN
Start	4229	End	5930
GI	none	Score	.91
Exons	4229..4612, 4677..4754, 4845..5087, 5197..5343, 5462..5545, 5651..5722, 5835..5930		

Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	4229	End	5934
GI	none	Score	358
Exons	4229..4621, 4233..4625, 4663..4755, 4671..4766, 4678..4755, 4845..5087, 4858..5079, 5200..5370, 5206..5370, 5432..5548, 5434..5547, 5648..5725, 5651..5725, 5796..5930, 5827..5934, 5835..5930		

Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o1.np	Method	AAT/NAP
Start	4232	End	5977
GI	1346485	Score	1381
Exons	4232..4612, 4677..4754, 4845..5087, 5197..5343, 5462..5545, 5651..5722, 5835..5977		
GI Descrip.	NADP-DEPENDENT MALIC ENZYME (NADP-ME) gi|20469|emb|CAA39690| (X56233) malic enzyme [Populus balsamifera subsp. trichocarpa]		

Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o2.gp	Method	AAT/GAP
Start	4536	End	5559
GI	64785_1.R1084	Score	1106

Exons	4536..4612, 4677..4754, 4845..5087, 5197..5343, 5462..5559		
GI Descrip.	'1170871/sp|P43279|MAOC_ORYSA 2.0e-82 MALATE OXIDOREDUCTASE, CHLOROPLAST PRECURSOR (MALIC ENZYME) (ME) (NADP-DEPENDENT MALIC ENZYME) (NADP-ME) >gi_1076749_pir__S46499 NADP-dependent malic enzyme - rice >gi_415315_dbj_BAA03949_ (D16499) NADP-dependent malic enzyme [Oryza sativa]'		
Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o2.tc	Method	TBLASTX:Cress
Start	5191	End	5930
GI	none	Score	88
Exons	5191..5370, 5197..5370, 5217..5378, 5261..5380, 5432..5548, 5439..5555, 5462..5548, 5651..5725, 5651..5725, 5832..5927, 5835..5930		
Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	5248	End	5921
GI	none	Score	64
Exons	5248..5370, 5248..5370, 5261..5374, 5432..5548, 5455..5547, 5462..5548, 5648..5725, 5651..5725, 5835..5921, 5835..5921		
Seq. No.	58650	Seq. ID	OJ000330_28.0419.C18
Gene No.	122455	Strand	-
Start	4229	End	5977
Name	OJ000330_28.0419.C18.o3.gp	Method	AAT/GAP
Start	5851	End	5930
GI	33542_1.R1084	Score	122
Exons	5851..5930		
GI Descrip.	'2695941/emb|CAA10989| 2.0e-20 (AJ222784) ribosomal like-protein [Hordeum vulgare]'		
Seq. No.	58651	Seq. ID	OJ000330_28.0419.C19
Gene No.	122456	Strand	-
Start	162	End	363
Name	OJ000330_28.0419.C19.o1.gs	Method	GENSCAN
Start	162	End	363
GI	none	Score	.47
Exons	162..363		
Seq. No.	58652	Seq. ID	OJ000330_28.0419.C20
Gene No.	122457	Strand	-
Start	614	End	1903
Name	OJ000330_28.0419.C20.o1.np	Method	AAT/NAP
Start	614	End	1903
GI	7486214	Score	114
Exons	614..733, 1872..1903		
GI Descrip.	hypothetical protein F26P21.40 - Arabidopsis thaliana gi|3688173|emb|CAA21201.1| (AL031804) putative protein [Arabidopsis thaliana] gi|7270239|emb|CAB80009.1| (AL161582) putative protein [Arabidopsis thaliana]		
Seq. No.	58652	Seq. ID	OJ000330_28.0419.C20

Gene No.	122457	Strand	-
Start	614	End	1903
Name	OJ000330_28.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	1408	End	1795
GI	none	Score	133
Exons	1408..1587, 1418..1594, 1438..1575, 1451..1588, 1639..1680, 1651..1680, 1676..1795, 1677..1787, 1709..1792		

Seq. No.	58653	Seq. ID	OJ000330_28.0419.C21
Gene No.	122458	Strand	-
Start	52	End	1030
Name	OJ000330_28.0419.C21.o1.gs	Method	GENSCAN
Start	52	End	1030
GI	none	Score	.87
Exons	52..208, 939..1030		

Seq. No.	58654	Seq. ID	OJ000330_28.0419.C22
Gene No.	122459	Strand	-
Start	829	End	1164
Name	OJ000330_28.0419.C22.o1.gs	Method	GENSCAN
Start	829	End	1164
GI	none	Score	.81
Exons	829..942, 1009..1164		

Seq. No.	58655	Seq. ID	OJ000330_28.0419.C23
Gene No.	122460	Strand	-
Start	1049	End	1657
Name	OJ000330_28.0419.C23.o1.gs	Method	GENSCAN
Start	1049	End	1657
GI	none	Score	.49
Exons	1049..1132, 1490..1657		

Seq. No.	58656	Seq. ID	OJ000330_28.0419.C25
Gene No.	122461	Strand	+
Start	542	End	675
Name	OJ000330_28.0419.C25.o1.gs	Method	GENSCAN
Start	542	End	675
GI	none	Score	.92
Exons	542..675		

Seq. No.	58657	Seq. ID	OJ000330_28.0419.C26
Gene No.	122462	Strand	+
Start	3855	End	4379
Name	OJ000330_28.0419.C26.o2.np	Method	AAT/NAP
Start	3855	End	4379
GI	7523502	Score	205
Exons	3855..3948, 4250..4379		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58657	Seq. ID	OJ000330_28.0419.C26
Gene No.	122463	Strand	+
Start	6444	End	7534
Name	OJ000330_28.0419.C26.o2.gp	Method	AAT/GAP
Start	6097	End	6602
GI	43649_2.R1084	Score	767
Exons	6097..6235, 6339..6602		
GI Descrip.	'3688173/emb|CAA21201| 2.0e-13 (AL031804) putative protein		

[Arabidopsis thaliana]'

Seq. No.	58657	Seq. ID	OJ000330_28.0419.C26
Gene No.	122463	Strand	+
Start	6444	End	7534
Name	OJ000330_28.0419.C26.o2.gs	Method	GENSCAN
Start	6444	End	7534
GI	none	Score	.94
Exons	6444..6612, 6908..6966, 7325..7534		

Seq. No.	58657	Seq. ID	OJ000330_28.0419.C26
Gene No.	122464	Strand	-
Start	1	End	4333
Name	OJ000330_28.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	439
GI	7469146	Score	104
Exons	1..48, 181..439		
GI Descrip.	conserved hypothetical protein - Rhodobacter capsulatus gi|3128304|gb|AAC16156.1| (AF010496) hypothetical protein [Rhodobacter capsulatus]		

Seq. No.	58657	Seq. ID	OJ000330_28.0419.C26
Gene No.	122464	Strand	-
Start	1	End	4333
Name	OJ000330_28.0419.C26.o1.gs	Method	GENSCAN
Start	56	End	4333
GI	none	Score	.45
Exons	56..124, 177..371, 720..896, 1442..1481, 4258..4291, 4315..4333		

Seq. No.	58657	Seq. ID	OJ000330_28.0419.C26
Gene No.	122464	Strand	-
Start	1	End	4333
Name	OJ000330_28.0419.C26.o1.gp	Method	AAT/GAP
Start	412	End	839
GI	700823	Score	222
Exons	412..432, 719..839		

Seq. No.	58658	Seq. ID	OJ000330_28.0419.C28
Gene No.	122465	Strand	+
Start	355	End	680
Name	OJ000330_28.0419.C28.o1.gs	Method	GENSCAN
Start	355	End	680
GI	none	Score	.68
Exons	355..509, 608..680		

Seq. No.	58659	Seq. ID	OJ000330_28.0419.C29
Gene No.	122466	Strand	+
Start	286	End	1262
Name	OJ000330_28.0419.C29.o1.gp	Method	AAT/GAP
Start	286	End	1262
GI	5421_1.R1084	Score	1180
Exons	286..503, 722..786, 907..1262		
GI Descrip.	'3688173/emb|CAA21201| 2.0e-13 (AL031804) putative protein [Arabidopsis thaliana]'		

Seq. No.	58659	Seq. ID	OJ000330_28.0419.C29
Gene No.	122466	Strand	+

Start	286	End	1262
Name	OJ000330_28.0419.C29.o1.gs	Method	GENSCAN
Start	320	End	1038
GI	none	Score	.97
Exons	320..503, 722..786, 907..1038		

Seq. No.	58659	Seq. ID	OJ000330_28.0419.C29
Gene No.	122466	Strand	+
Start	286	End	1262
Name	OJ000330_28.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	721	End	1110
GI	none	Score	91
Exons	721..813, 723..806, 906..1058, 907..1110		

Seq. No.	58660	Seq. ID	OJ000330_28.0419.C30
Gene No.	122467	Strand	+
Start	1025	End	1710
Name	OJ000330_28.0419.C30.o1.gs	Method	GENSCAN
Start	1025	End	1710
GI	none	Score	.51
Exons	1025..1076, 1589..1710		

Seq. No.	58661	Seq. ID	OJ000330_28.0419.C31
Gene No.	122468	Strand	-
Start	277	End	600
Name	OJ000330_28.0419.C31.o1.gs	Method	GENSCAN
Start	277	End	600
GI	none	Score	.67
Exons	277..336, 464..600		

Seq. No.	58662	Seq. ID	OJ000330_28.0419.C32
Gene No.	122469	Strand	+
Start	1	End	765
Name	OJ000330_28.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	765
GI	7513472	Score	46
Exons	1..41, 362..509, 661..765		
GI Descrip.	actin-depolymerizing protein N-WASP, brain - bovine gi|1644232|dbj|BAA11082.1| (D67066) N-WASP [Bos taurus]		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o1.np	Method	AAT/NAP
Start	1860	End	4412
GI	7452044	Score	825
Exons	1860..1956, 3323..4412		
GI Descrip.	hypothetical protein F27B13.20 - Arabidopsis thaliana gi|4914402|emb|CAB43653.1| (AL050352) hypothetical protein [Arabidopsis thaliana] gi|7269877|emb|CAB79736.1| (AL161575) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o1.gs	Method	GENSCAN
Start	1995	End	2617

GI	none	Score	.63
Exons	1995..2019, 2322..2617		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o2.gs	Method	GENSCAN
Start	3035	End	5204
GI	none	Score	.44
Exons	3035..3589, 3630..4352, 5163..5204		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	3355	End	4301
GI	none	Score	224
Exons	3355..3420, 3403..3579, 3413..3592, 3601..3669, 3699..3995, 3728..3790, 3869..3949, 4002..4052, 4005..4085, 4182..4301		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	3382	End	4391
GI	none	Score	251
Exons	3382..3591, 3383..3592, 3597..3665, 3601..3669, 3648..3710, 3664..3714, 3720..3887, 3720..3785, 3722..3892, 3866..3967, 3888..3986, 4005..4085, 4019..4078, 4182..4301, 4184..4228, 4323..4391, 4328..4390		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o2.tc	Method	TBLASTX:Cress
Start	3412	End	3657
GI	none	Score	191
Exons	3412..3591, 3413..3592, 3597..3656, 3601..3657		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	3461	End	4424
GI	none	Score	170
Exons	3461..3592, 3469..3591, 3597..3707, 3601..3669, 3658..3705, 3731..3958, 3732..3986, 4008..4085, 4008..4052, 4019..4078, 4182..4301, 4182..4214, 4184..4228, 4328..4390, 4329..4424		

Seq. No.	58663	Seq. ID	OJ000330_28.0419.C36
Gene No.	122470	Strand	+
Start	1860	End	5204
Name	OJ000330_28.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	3708	End	4391
GI	none	Score	246
Exons	3708..3995, 3734..3958, 4005..4085, 4028..4078, 4182..4307, 4184..4228, 4308..4391		

Seq. No.	58664	Seq. ID	OJ000330_28.0419.C37
Gene No.	122471	Strand	+
Start	1742	End	3106
Name	OJ000330_28.0419.C37.o1.gs	Method	GENSCAN
Start	1742	End	3106
GI	none	Score	.43
Exons	1742..1814, 2431..2541, 2862..3106		

Seq. No.	58664	Seq. ID	OJ000330_28.0419.C37
Gene No.	122472	Strand	-
Start	4228	End	4318
Name	OJ000330_28.0419.C37.o2.gs	Method	GENSCAN
Start	4228	End	4318
GI	none	Score	.46
Exons	4228..4318		

Seq. No.	58665	Seq. ID	OJ000330_28.0419.C38
Gene No.	122473	Strand	+
Start	820	End	900
Name	OJ000330_28.0419.C38.o1.np	Method	AAT/NAP
Start	820	End	900
GI	6630699	Score	78
Exons	820..900		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	58665	Seq. ID	OJ000330_28.0419.C38
Gene No.	122474	Strand	+
Start	1031	End	1450
Name	OJ000330_28.0419.C38.o2.np	Method	AAT/NAP
Start	1031	End	1450
GI	6539570	Score	138
Exons	1031..1225, 1384..1450		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	58665	Seq. ID	OJ000330_28.0419.C38
Gene No.	122475	Strand	-
Start	810	End	2071
Name	OJ000330_28.0419.C38.o1.gs	Method	GENSCAN
Start	810	End	2071
GI	none	Score	.63
Exons	810..894, 1911..2071		

Seq. No.	58666	Seq. ID	OJ000330_28.0419.C39
Gene No.	122476	Strand	-
Start	180	End	1499
Name	OJ000330_28.0419.C39.o1.gs	Method	GENSCAN
Start	180	End	1499
GI	none	Score	.57
Exons	180..276, 1311..1499		

Seq. No.	58667	Seq. ID	OJ000330_28.0419.C40
Gene No.	122477	Strand	-
Start	215	End	979
Name	OJ000330_28.0419.C40.o1.np	Method	AAT/NAP

Start	215	End	979
GI	6815097	Score	1111
Exons	215..979		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	58667	Seq. ID	OJ000330_28.0419.C40
Gene No.	122477	Strand	-
Start	215	End	979
Name	OJ000330_28.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	358	End	723
GI	none	Score	76
Exons	358..723, 368..565		

Seq. No.	58667	Seq. ID	OJ000330_28.0419.C40
Gene No.	122477	Strand	-
Start	215	End	979
Name	OJ000330_28.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	382	End	706
GI	none	Score	217
Exons	382..705, 383..706		

Seq. No.	58668	Seq. ID	OJ000330_28.0419.C42
Gene No.	122478	Strand	-
Start	1	End	927
Name	OJ000330_28.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	927
GI	4680204	Score	582
Exons	1..927		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	58668	Seq. ID	OJ000330_28.0419.C42
Gene No.	122478	Strand	-
Start	1	End	927
Name	OJ000330_28.0419.C42.o1.gs	Method	GENSCAN
Start	27	End	797
GI	none	Score	54
Exons	27..285, 529..797		

Seq. No.	58668	Seq. ID	OJ000330_28.0419.C42
Gene No.	122478	Strand	-
Start	1	End	927
Name	OJ000330_28.0419.C42.o1.tw	Method	TBLASTX:Wheat
Start	231	End	632
GI	none	Score	76
Exons	231..401, 232..306, 391..531, 396..632, 438..632		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o1.gs	Method	GENSCAN
Start	509	End	2709
GI	none	Score	.77
Exons	509..1099, 1501..2102, 2235..2505, 2569..2709		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-

Start	509	End	2768
Name	OJ000330_28.0419.C43.o1.tw	Method	TBLASTX:Wheat
Start	584	End	1905
GI	none	Score	50
Exons	584..676, 585..650, 665..733, 681..746, 750..830, 752..868, 759..899, 776..871, 846..941, 878..937, 943..1008, 944..988, 983..1426, 999..1427, 1015..1434, 1421..1900, 1455..1574, 1474..1899, 1720..1905		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o1.np	Method	AAT/NAP
Start	1068	End	2768
GI	6742729	Score	2575
Exons	1068..2768		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o1.tc	Method	TBLASTX:Cress
Start	1166	End	1612
GI	none	Score	111
Exons	1166..1318, 1166..1426, 1170..1427, 1176..1427, 1421..1612, 1455..1574, 1474..1608		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	1543	End	1857
GI	none	Score	126
Exons	1543..1857, 1544..1840		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o3.tw	Method	TBLASTX:Wheat
Start	1906	End	2310
GI	none	Score	65
Exons	1906..1986, 1907..1987, 1918..1992, 1938..1991, 2019..2204, 2019..2231, 2020..2238, 2060..2242, 2248..2310		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	2344	End	2586
GI	none	Score	200
Exons	2344..2586		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	2416	End	2763

GI	none	Score	63
Exons	2416..2610, 2620..2763, 2621..2755		

Seq. No.	58669	Seq. ID	OJ000330_28.0419.C43
Gene No.	122479	Strand	-
Start	509	End	2768
Name	OJ000330_28.0419.C43.o2.tw	Method	TBLASTX:Wheat
Start	2450	End	2757
GI	none	Score	159
Exons	2450..2656, 2450..2554, 2455..2658, 2455..2679, 2657..2749, 2659..2757, 2660..2752		

Seq. No.	58670	Seq. ID	OJ000330_28.0419.C44
Gene No.	122480	Strand	+
Start	1	End	1575
Name	OJ000330_28.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	1575
GI	5922620	Score	144
Exons	1..211, 777..963, 1546..1575		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58671	Seq. ID	OJ000330_28.0419.C46
Gene No.	122481	Strand	-
Start	1	End	1407
Name	OJ000330_28.0419.C46.o1.gp	Method	AAT/GAP
Start	1	End	1061
GI	33542_1.R1084	Score	882
Exons	1..36, 162..267, 374..525, 863..1061		
GI Descrip.	'2695941/emb|CAA10989| 2.0e-20 (AJ222784) ribosomal like-protein [Hordeum vulgare]'		

Seq. No.	58671	Seq. ID	OJ000330_28.0419.C46
Gene No.	122481	Strand	-
Start	1	End	1407
Name	OJ000330_28.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	1	End	1060
GI	none	Score	45
Exons	1..42, 5..37, 156..263, 162..269, 205..273, 370..441, 373..528, 377..469, 496..531, 861..950, 866..1060, 867..968		

Seq. No.	58671	Seq. ID	OJ000330_28.0419.C46
Gene No.	122481	Strand	-
Start	1	End	1407
Name	OJ000330_28.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	1	End	1027
GI	none	Score	54
Exons	1..42, 5..52, 156..263, 162..269, 205..273, 373..528, 377..469, 496..531, 861..965, 861..953, 866..1027		

Seq. No.	58671	Seq. ID	OJ000330_28.0419.C46
Gene No.	122481	Strand	-
Start	1	End	1407
Name	OJ000330_28.0419.C46.o1.np	Method	AAT/NAP

Start	1	End	1407
GI	1170871	Score	656
Exons	1..36, 162..267, 374..525, 863..1058, 1226..1407		
GI Descrip.	NADP-DEPENDENT MALIC ENZYME, CHLOROPLAST PRECURSOR (NADP-ME) gi|1076749|pir||S46499 NADP-dependent malic enzyme - rice gi|415315|dbj|BAA03949| (D16499) NADP-dependent malic enzyme [Oryza sativa]		

Seq. No.	58671	Seq. ID	OJ000330_28.0419.C46
Gene No.	122481	Strand	-
Start	1	End	1407
Name	OJ000330_28.0419.C46.o1.gs	Method	GENSCAN
Start	162	End	1058
GI	none	Score	1
Exons	162..267, 374..525, 863..1058		

Seq. No.	58671	Seq. ID	OJ000330_28.0419.C46
Gene No.	122481	Strand	-
Start	1	End	1407
Name	OJ000330_28.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	189	End	1061
GI	none	Score	70
Exons	189..269, 205..273, 373..528, 377..469, 496..531, 866..1060, 867..968, 1011..1061		

Seq. No.	58671	Seq. ID	OJ000330_28.0419.C46
Gene No.	122481	Strand	-
Start	1	End	1407
Name	OJ000330_28.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	382	End	1060
GI	none	Score	123
Exons	382..528, 383..469, 496..531, 866..1060, 867..968, 956..1054		

Seq. No.	58672	Seq. ID	OJ000330_28.0419.C47
Gene No.	122482	Strand	-
Start	1	End	1272
Name	OJ000330_28.0419.C47.o1.np	Method	AAT/NAP
Start	1	End	1272
GI	6691193	Score	676
Exons	1..867, 1234..1272		
GI Descrip.	(AC007534) F7F22.17 [Arabidopsis thaliana]		

Seq. No.	58672	Seq. ID	OJ000330_28.0419.C47
Gene No.	122482	Strand	-
Start	1	End	1272
Name	OJ000330_28.0419.C47.o1.tw	Method	TBLASTX:Wheat
Start	238	End	615
GI	none	Score	119
Exons	238..402, 261..401, 423..530, 429..533, 519..614, 520..615		

Seq. No.	58672	Seq. ID	OJ000330_28.0419.C47
Gene No.	122482	Strand	-
Start	1	End	1272
Name	OJ000330_28.0419.C47.o1.gs	Method	GENSCAN
Start	489	End	1150
GI	none	Score	.88
Exons	489..865, 952..1150		

Seq. No.	58672	Seq. ID	OJ000330_28.0419.C47
Gene No.	122482	Strand	-
Start	1	End	1272
Name	OJ000330_28.0419.C47.o2.tw	Method	TBLASTX:Wheat
Start	702	End	869
GI	none	Score	82
Exons	702..866, 720..869		

Seq. No.	58673	Seq. ID	OJ000330_28.0419.C48
Gene No.	122483	Strand	-
Start	794	End	967
Name	OJ000330_28.0419.C48.o1.gp	Method	AAT/GAP
Start	794	End	967
GI	5851098	Score	239
Exons	794..967		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122484	Strand	+
Start	1	End	2270
Name	OJ000210_20.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	2267
GI	6907089	Score	2681
Exons	1..360, 464..2267		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122484	Strand	+
Start	1	End	2270
Name	OJ000210_20.0419.C2.o1.gs	Method	GENSCAN
Start	40	End	2270
GI	none	Score	.6
Exons	40..165, 218..360, 464..1172, 1339..1746, 1805..2045, 2095..2270		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122485	Strand	+
Start	9100	End	11996
Name	OJ000210_20.0419.C2.o3.np	Method	AAT/NAP
Start	9100	End	11746
GI	5922623	Score	159
Exons	9100..9180, 9702..9848, 10036..10107, 10408..10527, 11648..11746		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122485	Strand	+
Start	9100	End	11996
Name	OJ000210_20.0419.C2.o3.gs	Method	GENSCAN
Start	11316	End	11996
GI	none	Score	.73
Exons	11316..11478, 11833..11892, 11956..11996		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122486	Strand	+
Start	12598	End	14513
Name	OJ000210_20.0419.C2.o4.np	Method	AAT/NAP

Start	12598	End	14513
GI	7248415	Score	414
Exons	12598..12860, 13742..13880, 14272..14513		
GI Descrip.	(AP001389) ESTs AU077873(S1878),D40121(S1878) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana 60S ribosomal protein L13 (P41127) [Oryza sativa]		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122487	Strand	+
Start	16638	End	18745
Name	OJ000210_20.0419.C2.o3.gp	Method	AAT/GAP
Start	16569	End	18745
GI	19007_1.R1084	Score	1074
Exons	16569..16649, 17382..17499, 18228..18290, 18403..18745		
GI Descrip.	'3334112/sp|O04066|ACBP_RICCO 3.0e-35 ACYL-COA-BINDING PROTEIN (ACBP) >gi_1938236_emb_CAA70200_ (Y08996) acyl-CoA-binding protein [Ricinus communis]'		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122487	Strand	+
Start	16638	End	18745
Name	OJ000210_20.0419.C2.o6.gs	Method	GENSCAN
Start	16638	End	18485
GI	none	Score	.46
Exons	16638..16649, 17382..17499, 18403..18485		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122487	Strand	+
Start	16638	End	18745
Name	OJ000210_20.0419.C2.o5.np	Method	AAT/NAP
Start	17370	End	18485
GI	6002102	Score	333
Exons	17370..17499, 18228..18290, 18403..18485		
GI Descrip.	(AJ249833) Acyl-CoA binding protein (ACBP) [Digitalis lanata]		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122488	Strand	-
Start	2886	End	10579
Name	OJ000210_20.0419.C2.o2.gs	Method	GENSCAN
Start	2886	End	10579
GI	none	Score	.56
Exons	2886..5763, 5797..6614, 6678..6797, 6821..7116, 7471..9096, 9133..9201, 9240..9303, 9674..9763, 10000..10093, 10554..10579		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122488	Strand	-
Start	2886	End	10579
Name	OJ000210_20.0419.C2.o2.np	Method	AAT/NAP
Start	2889	End	9025
GI	7228457	Score	9070
Exons	2889..4439, 4506..5657, 5780..6614, 6678..8597, 8659..9025		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122489	Strand	-

Start	12337	End	12597
Name	OJ000210_20.0419.C2.o4.gs	Method	GENSCAN
Start	12337	End	12597
GI	none	Score	.94
Exons	12337..12597		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o7.tw	Method	TBLASTX:Wheat
Start	125	End	3500
GI	none	Score	77
Exons	125..217, 2898..3023, 2902..3024, 3084..3500, 3216..3500		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o7.tm	Method	TBLASTX:Maize
Start	2886	End	3029
GI	none	Score	126
Exons	2886..3029, 2890..3024		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o4.tw	Method	TBLASTX:Wheat
Start	3501	End	3882
GI	none	Score	184
Exons	3501..3881, 3532..3777, 3641..3784, 3805..3882		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	3696	End	4019
GI	none	Score	213
Exons	3696..4019, 3709..3990		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o8.tw	Method	TBLASTX:Wheat
Start	4212	End	4524
GI	none	Score	68
Exons	4212..4487, 4213..4524		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	4272	End	4838
GI	5666795	Score	64
Exons	4272..4487, 4527..4664, 4740..4838		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-

Start	19025	End	19769
Name	OJ000210_20.0419.C2.o5.tw	Method	TBLASTX:Wheat
Start	4527	End	4988
GI	none	Score	88
Exons	4527..4676, 4528..4665, 4530..4667, 4710..4961, 4711..4896, 4731..4988		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o6.tw	Method	TBLASTX:Wheat
Start	5074	End	8368
GI	none	Score	94
Exons	5074..5139, 7979..8236, 8016..8252, 8219..8317, 8220..8300, 8324..8368		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	5586	End	5957
GI	none	Score	86
Exons	5586..5957, 5806..5940		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	5616	End	6036
GI	none	Score	288
Exons	5616..6035, 5641..6036		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	5709	End	6093
GI	none	Score	234
Exons	5709..6092, 5728..6093		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	6120	End	6476
GI	none	Score	80
Exons	6120..6236, 6120..6476, 6130..6441		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	6144	End	6607
GI	none	Score	216
Exons	6144..6605, 6144..6605, 6145..6606, 6419..6607		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2

Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o3.ts	Method	TBLASTX:Soybean
Start	6201	End	6566
GI	none	Score	109
Exons	6201..6335, 6342..6566		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o3.tw	Method	TBLASTX:Wheat
Start	6798	End	7256
GI	none	Score	164
Exons	6798..7061, 6798..6944, 6806..7255, 6827..7255, 7083..7256		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o5.tm	Method	TBLASTX:Maize
Start	8081	End	8329
GI	none	Score	107
Exons	8081..8329, 8082..8327		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o4.tm	Method	TBLASTX:Maize
Start	13735	End	14597
GI	none	Score	73
Exons	13735..13833, 13740..13820, 13742..13822, 13802..13852, 13819..13854, 14281..14337, 14282..14338, 14304..14339, 14339..14422, 14339..14494, 14430..14483, 14431..14487, 14539..14592, 14541..14591, 14556..14597		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o6.tm	Method	TBLASTX:Maize
Start	17376	End	18602
GI	none	Score	193
Exons	17376..17498, 17378..17497, 18226..18291, 18230..18292, 18230..18295, 18238..18297, 18380..18451, 18394..18456, 18401..18469, 18402..18467, 18579..18602		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o7.gs	Method	GENSCAN
Start	19025	End	19615
GI	none	Score	.82
Exons	19025..19615		

Seq. No.	58674	Seq. ID	OJ000210_20.0419.C2
Gene No.	122490	Strand	-
Start	19025	End	19769
Name	OJ000210_20.0419.C2.o4.gp	Method	AAT/GAP
Start	19311	End	19769

GI	none	Score	837
Exons	19311..19769		

Seq. No.	58675	Seq. ID	OJ000210_20.0419.C3
Gene No.	122491	Strand	-
Start	1	End	1458
Name	OJ000210_20.0419.C3.o1.gp	Method	AAT/GAP
Start	1	End	1458
GI	3377_1.R1084	Score	762
Exons	1..105, 212..293, 484..650, 1349..1458		
GI Descrip.	'2264310/dbj|AB005238.1|AB005238 1.0e-15 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MKP11, complete sequence'		

Seq. No.	58675	Seq. ID	OJ000210_20.0419.C3
Gene No.	122491	Strand	-
Start	1	End	1458
Name	OJ000210_20.0419.C3.o1.gs	Method	GENSCAN
Start	37	End	650
GI	none	Score	.88
Exons	37..105, 212..293, 484..650		

Seq. No.	58675	Seq. ID	OJ000210_20.0419.C3
Gene No.	122491	Strand	-
Start	1	End	1458
Name	OJ000210_20.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	37	End	1433
GI	none	Score	84
Exons	37..117, 38..106, 188..295, 207..296, 207..296, 483..647, 484..648, 484..648, 485..649, 1349..1432, 1350..1433		

Seq. No.	58675	Seq. ID	OJ000210_20.0419.C3
Gene No.	122491	Strand	-
Start	1	End	1458
Name	OJ000210_20.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	37	End	1433
GI	none	Score	64
Exons	37..102, 37..102, 38..106, 207..323, 212..295, 213..296, 483..647, 483..650, 484..648, 1349..1432, 1350..1433		

Seq. No.	58675	Seq. ID	OJ000210_20.0419.C3
Gene No.	122491	Strand	-
Start	1	End	1458
Name	OJ000210_20.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	37	End	1433
GI	none	Score	87
Exons	37..117, 38..106, 188..295, 207..296, 454..651, 483..650, 1349..1432, 1350..1433		

Seq. No.	58676	Seq. ID	OJ000210_20.0419.C4
Gene No.	122492	Strand	-
Start	538	End	978
Name	OJ000210_20.0419.C4.o1.gs	Method	GENSCAN
Start	538	End	978
GI	none	Score	.98
Exons	538..693, 897..978		

Seq. No.	58677	Seq. ID	OJ000210_20.0419.C5

Gene No.	122493	Strand	-
Start	1	End	857
Name	OJ000210_20.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	857
GI	6958202	Score	80
Exons	1..182, 740..857		
GI Descrip.	(AF091837) DNA-binding protein [Triticum aestivum]		

Seq. No.	58678	Seq. ID	OJ000210_20.0419.C6
Gene No.	122494	Strand	-
Start	694	End	2787
Name	OJ000210_20.0419.C6.o1.np	Method	AAT/NAP
Start	694	End	2787
GI	7486881	Score	754
Exons	694..734, 1869..2787		
GI Descrip.	hypothetical protein T12H17.150 - Arabidopsis thaliana gi|2827553|emb|CAA16561.1| (AL021635) predicted protein [Arabidopsis thaliana] gi|7269122|emb|CAB79231.1| (AL161557) predicted protein [Arabidopsis thaliana]		

Seq. No.	58678	Seq. ID	OJ000210_20.0419.C6
Gene No.	122494	Strand	-
Start	694	End	2787
Name	OJ000210_20.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1798	End	2054
GI	none	Score	295
Exons	1798..2052, 1812..2054		

Seq. No.	58678	Seq. ID	OJ000210_20.0419.C6
Gene No.	122494	Strand	-
Start	694	End	2787
Name	OJ000210_20.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	1833	End	2261
GI	none	Score	94
Exons	1833..2261, 1840..2115		

Seq. No.	58678	Seq. ID	OJ000210_20.0419.C6
Gene No.	122494	Strand	-
Start	694	End	2787
Name	OJ000210_20.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	2028	End	2780
GI	none	Score	115
Exons	2028..2411, 2041..2370, 2535..2579, 2598..2687, 2694..2780		

Seq. No.	58678	Seq. ID	OJ000210_20.0419.C6
Gene No.	122494	Strand	-
Start	694	End	2787
Name	OJ000210_20.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	2122	End	2544
GI	none	Score	445
Exons	2122..2544, 2122..2214, 2124..2543		

Seq. No.	58678	Seq. ID	OJ000210_20.0419.C6
Gene No.	122494	Strand	-
Start	694	End	2787
Name	OJ000210_20.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	2145	End	2786

GI	none	Score	62
Exons	2145..2579, 2211..2312, 2583..2684, 2694..2786		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122495	Strand	+
Start	1269	End	2412
Name	OJ000210_20.0419.C7.o1.gs	Method	GENSCAN
Start	1269	End	2412
GI	none	Score	.41
Exons	1269..1402, 2109..2412		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122496	Strand	-
Start	1533	End	1941
Name	OJ000210_20.0419.C7.o1.gp	Method	AAT/GAP
Start	1533	End	1941
GI	none	Score	757
Exons	1533..1941		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122497	Strand	-
Start	1974	End	3266
Name	OJ000210_20.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1558	End	3090
GI	none	Score	52
Exons	1558..1632, 1739..1783, 1765..1848, 1894..1923, 1899..1955, 2005..2184, 2005..2037, 2033..2185, 2034..2249, 2035..2190, 2299..2391, 2310..2396, 2311..2397, 2315..2401, 2316..2405, 2397..2477, 2399..2476, 2614..2799, 2616..2801, 2952..3086, 2987..3088, 2987..3082, 2989..3087, 2992..3090		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122497	Strand	-
Start	1974	End	3266
Name	OJ000210_20.0419.C7.o1.np	Method	AAT/NAP
Start	1974	End	3266
GI	6730738	Score	543
Exons	1974..2185, 2305..2476, 2613..2798, 2992..3087, 3240..3266		
GI Descrip.	(AC018849) unknown protein [Arabidopsis thaliana]		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122497	Strand	-
Start	1974	End	3266
Name	OJ000210_20.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	1993	End	2452
GI	none	Score	141
Exons	1993..2181, 2042..2182, 2298..2393, 2393..2452		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122497	Strand	-
Start	1974	End	3266
Name	OJ000210_20.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	2011	End	3088
GI	none	Score	120
Exons	2011..2196, 2042..2179, 2307..2393, 2393..2452, 2637..2801, 3013..3087, 3014..3088		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122497	Strand	-
Start	1974	End	3266
Name	OJ000210_20.0419.C7.o2.gp	Method	AAT/GAP
Start	2101	End	3103
GI	25154_1.R1084	Score	842
Exons	2101..2188, 2305..2476, 2613..2798, 2992..3103		
GI Descrip.	'5922612/dbj|BAA84613.1| 1.0e-118 (AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]'		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122497	Strand	-
Start	1974	End	3266
Name	OJ000210_20.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	2634	End	3088
GI	none	Score	63
Exons	2634..2711, 2634..2801, 2635..2799, 2763..2810, 2987..3088, 2989..3087		

Seq. No.	58679	Seq. ID	OJ000210_20.0419.C7
Gene No.	122497	Strand	-
Start	1974	End	3266
Name	OJ000210_20.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	2652	End	2812
GI	none	Score	228
Exons	2652..2801, 2653..2799, 2653..2802, 2654..2812		

Seq. No.	58680	Seq. ID	OJ000210_20.0419.C8
Gene No.	122498	Strand	+
Start	1799	End	2350
Name	OJ000210_20.0419.C8.o1.gs	Method	GENSCAN
Start	1799	End	2350
GI	none	Score	.97
Exons	1799..2350		

Seq. No.	58681	Seq. ID	OJ000210_20.0419.C9
Gene No.	122499	Strand	-
Start	306	End	1069
Name	OJ000210_20.0419.C9.o1.gs	Method	GENSCAN
Start	306	End	1069
GI	none	Score	.96
Exons	306..1069		

Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122500	Strand	+
Start	51	End	780
Name	OJ000210_20.0419.C10.o1.gs	Method	GENSCAN
Start	51	End	780
GI	none	Score	.67
Exons	51..780		

Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122501	Strand	+
Start	1692	End	1796
Name	OJ000210_20.0419.C10.o1.np	Method	AAT/NAP

Start	1692	End	1796
GI	140310	Score	175
Exons	1692..1796		
GI Descrip.	PHOTOSYSTEM II REACTION CENTER T PROTEIN gi|82528|pir||JQ0254 hypothetical 4K protein (psbH-petB intergenic region) - rice chloroplast gi|12014|emb|CAA33974| (X15901) ORF35 [Oryza sativa] gi|2143324|emb|CAA73766.1| (Y13328) PSII subunit [Populus deltoides] gi|226636|prf||1603356BK ORF 35 [Oryza sativa]		

Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122502	Strand	-
Start	1706	End	5368
Name	OJ000210_20.0419.C10.o2.gs	Method	GENSCAN
Start	1706	End	5368
GI	none	Score	.51
Exons	1706..1782, 2293..2412, 2683..2760, 3030..3168, 5171..5368		

Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122502	Strand	-
Start	1706	End	5368
Name	OJ000210_20.0419.C10.o2.np	Method	AAT/NAP
Start	1850	End	1978
GI	131375	Score	187
Exons	1850..1978		
GI Descrip.	PHOTOSYSTEM II REACTION CENTER N PROTEIN gi|72720|pir||F2RZN photosystem II protein psbN - rice chloroplast gi|82632|pir||S14142 photosystem II protein psbN - wheat chloroplast gi|100123|pir||S12130 photosystem II protein psbN - Appalachian evening primrose chloroplast gi|100737|pir||JN0417 photosystem II protein psbN - rye chloroplast gi|485419|pir||S12133 photosys		

Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122503	Strand	-
Start	6382	End	6916
Name	OJ000210_20.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	1594	End	2138
GI	none	Score	65
Exons	1594..1674, 1594..1674, 1673..1795, 1674..1766, 1825..1956, 1853..2032, 1859..2023, 2034..2078, 2034..2075, 2035..2076, 2067..2135, 2072..2137, 2073..2138		

Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122503	Strand	-
Start	6382	End	6916
Name	OJ000210_20.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	1856	End	2138
GI	none	Score	219
Exons	1856..2032, 1857..2033, 1859..2023, 2034..2078, 2035..2076, 2067..2135, 2071..2133, 2072..2137, 2073..2138		

Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122503	Strand	-
Start	6382	End	6916
Name	OJ000210_20.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	1857	End	2136
GI	none	Score	447

Exons	1857..2132, 1857..2135, 1996..2136		
Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122503	Strand	-
Start	6382	End	6916
Name	OJ000210_20.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	1928	End	2132
GI	none	Score	249
Exons	1928..2023, 1929..2096, 1929..2093, 2069..2095, 2096..2131, 2097..2132		
Seq. No.	58682	Seq. ID	OJ000210_20.0419.C10
Gene No.	122503	Strand	-
Start	6382	End	6916
Name	OJ000210_20.0419.C10.o3.gs	Method	GENSCAN
Start	6382	End	6916
GI	none	Score	.67
Exons	6382..6420, 6512..6916		
Seq. No.	58683	Seq. ID	OJ000210_20.0419.C11
Gene No.	122504	Strand	-
Start	2283	End	10637
Name	OJ000210_20.0419.C11.o1.gs	Method	GENSCAN
Start	2283	End	8279
GI	none	Score	.65
Exons	2283..2503, 2697..2805, 3237..3469, 4078..4354, 4579..5160, 5408..5535, 7317..7596, 7803..8279		
Seq. No.	58683	Seq. ID	OJ000210_20.0419.C11
Gene No.	122504	Strand	-
Start	2283	End	10637
Name	OJ000210_20.0419.C11.o1.np	Method	AAT/NAP
Start	7306	End	10637
GI	5295948	Score	207
Exons	7306..7581, 7784..8405, 10580..10637		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		
Seq. No.	58683	Seq. ID	OJ000210_20.0419.C11
Gene No.	122504	Strand	-
Start	2283	End	10637
Name	OJ000210_20.0419.C11.o2.np	Method	AAT/NAP
Start	10445	End	10637
GI	5295948	Score	116
Exons	10445..10637		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		
Seq. No.	58684	Seq. ID	OJ000210_20.0419.C12
Gene No.	122505	Strand	+
Start	2815	End	3084
Name	OJ000210_20.0419.C12.o1.gp	Method	AAT/GAP
Start	2815	End	3084
GI	LIB3434-035-P1-K1-A7	Score	452
Exons	2815..3084		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		
Seq. No.	58684	Seq. ID	OJ000210_20.0419.C12

Gene No.	122506	Strand	+
Start	3048	End	3128
Name	OJ000210_20.0419.C12.o2.gp	Method	AAT/GAP
Start	3048	End	3128
GI	38012:1.R1084	Score	107
Exons	3048..3128		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	58684	Seq. ID	OJ000210_20.0419.C12
Gene No.	122507	Strand	+
Start	3354	End	11003
Name	OJ000210_20.0419.C12.o2.gs	Method	GENSCAN
Start	3354	End	4649
GI	none	Score	.64
Exons	3354..4649		

Seq. No.	58684	Seq. ID	OJ000210_20.0419.C12
Gene No.	122507	Strand	+
Start	3354	End	11003
Name	OJ000210_20.0419.C12.o1.np	Method	AAT/NAP
Start	3372	End	11003
GI	4544397	Score	54
Exons	3372..3484, 10980..11003		
GI Descrip.	(AC007047) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	58684	Seq. ID	OJ000210_20.0419.C12
Gene No.	122507	Strand	+
Start	3354	End	11003
Name	OJ000210_20.0419.C12.o3.gs	Method	GENSCAN
Start	7415	End	9608
GI	none	Score	.86
Exons	7415..7738, 7945..8180, 8210..8462, 8616..8898, 9538..9608		

Seq. No.	58685	Seq. ID	OJ000210_20.0419.C13
Gene No.	122508	Strand	+
Start	104	End	1738
Name	OJ000210_20.0419.C13.o1.gs	Method	GENSCAN
Start	104	End	1738
GI	none	Score	.76
Exons	104..244, 418..703, 1656..1738		

Seq. No.	58686	Seq. ID	OJ000210_20.0419.C14
Gene No.	122509	Strand	-
Start	444	End	2566
Name	OJ000210_20.0419.C14.o1.gs	Method	GENSCAN
Start	444	End	2566
GI	none	Score	.87
Exons	444..551, 641..736, 1022..1179, 1245..1401, 1495..1548, 1827..1934, 2477..2566		

Seq. No.	58686	Seq. ID	OJ000210_20.0419.C14
Gene No.	122509	Strand	-
Start	444	End	2566
Name	OJ000210_20.0419.C14.o2.gp	Method	AAT/GAP
Start	1286	End	1939
GI	3766667	Score	457

Exons	1286..1401, 1495..1548, 1827..1939		
Seq. No.	58686	Seq. ID	OJ000210_20.0419.C14
Gene No.	122509	Strand	-
Start	444	End	2566
Name	OJ000210_20.0419.C14.o1.gp	Method	AAT/GAP
Start	1288	End	1934
GI	3766667	Score	466
Exons	1288..1401, 1495..1548, 1827..1934		
Seq. No.	58686	Seq. ID	OJ000210_20.0419.C14
Gene No.	122509	Strand	-
Start	444	End	2566
Name	OJ000210_20.0419.C14.o3.gp	Method	AAT/GAP
Start	1824	End	1937
GI	3766667	Score	174
Exons	1824..1937		
Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122510	Strand	+
Start	1	End	2194
Name	OJ000210_20.0419.C15.o2.np	Method	AAT/NAP
Start	1	End	1901
GI	7487137	Score	497
Exons	1..65, 1266..1399, 1535..1698, 1833..1901		
GI Descrip.	hypothetical protein T18B16.20 - Arabidopsis thaliana gi|2832633|emb|CAA16762.1| (AL021711) putative protein [Arabidopsis thaliana] gi|7268700|emb|CAB78907.1| (AL161550) putative protein [Arabidopsis thaliana]		
Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122510	Strand	+
Start	1	End	2194
Name	OJ000210_20.0419.C15.o1.gp	Method	AAT/GAP
Start	650	End	2194
GI	10719_1.R1084	Score	1099
Exons	650..671, 1266..1399, 1535..1698, 1833..2194		
GI Descrip.	'2832633/emb|CAA16762.1| 1e-104 (AL021711) putative protein [Arabidopsis thaliana]'		
Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122510	Strand	+
Start	1	End	2194
Name	OJ000210_20.0419.C15.o2.gs	Method	GENSCAN
Start	859	End	1904
GI	none	Score	.96
Exons	859..955, 1535..1698, 1779..1904		
Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122511	Strand	-
Start	51	End	621
Name	OJ000210_20.0419.C15.o1.gs	Method	GENSCAN
Start	51	End	621
GI	none	Score	.5
Exons	51..372, 446..621		
Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15

Gene No.	122512	Strand	-
Start	2754	End	3209
Name	OJ000210_20.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1248	End	2020
GI	none	Score	148
Exons	1248..1400, 1264..1401, 1267..1398, 1521..1694, 1533..1694, 1534..1695, 1534..1695, 1806..1895, 1814..1894, 1834..1923, 1835..1924, 1837..1911, 1994..2020		

Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122512	Strand	-
Start	2754	End	3209
Name	OJ000210_20.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1263	End	1904
GI	none	Score	100
Exons	1263..1400, 1263..1400, 1264..1404, 1533..1694, 1534..1695, 1806..1904, 1832..1900		

Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122512	Strand	-
Start	2754	End	3209
Name	OJ000210_20.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	1264	End	1401
GI	none	Score	227
Exons	1264..1401, 1266..1400		

Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122512	Strand	-
Start	2754	End	3209
Name	OJ000210_20.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	1533	End	1895
GI	none	Score	60
Exons	1533..1580, 1534..1572, 1569..1688, 1570..1689, 1806..1895, 1832..1894		

Seq. No.	58687	Seq. ID	OJ000210_20.0419.C15
Gene No.	122512	Strand	-
Start	2754	End	3209
Name	OJ000210_20.0419.C15.o3.gs	Method	GENSCAN
Start	2754	End	3209
GI	none	Score	.58
Exons	2754..3209		

Seq. No.	58688	Seq. ID	OJ000210_20.0419.C17
Gene No.	122513	Strand	+
Start	1	End	7100
Name	OJ000210_20.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	5753
GI	7228438	Score	3771
Exons	1..423, 1942..2040, 2125..2535, 2627..2925, 3002..3260, 3353..3535, 3693..3758, 5020..5322, 5493..5753		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	58688	Seq. ID	OJ000210_20.0419.C17
Gene No.	122513	Strand	+

Start	1	End	7100
Name	OJ000210_20.0419.C17.o1.gs	Method	GENSCAN
Start	397	End	4608
GI	none	Score	.69
Exons	397..506, 715..1010, 1448..1598, 1704..1950, 2125..2347, 2420..2535, 2627..2925, 3002..3129, 3187..3260, 3353..3478, 3505..3602, 3849..3979, 4043..4312, 4448..4608		

Seq. No.	58688	Seq. ID	OJ000210_20.0419.C17
Gene No.	122513	Strand	+
Start	1	End	7100
Name	OJ000210_20.0419.C17.o1.gp	Method	AAT/GAP
Start	2753	End	3252
GI	LIB3475-007-P1-K1-G8	Score	797
Exons	2753..2925, 3002..3252		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	58688	Seq. ID	OJ000210_20.0419.C17
Gene No.	122513	Strand	+
Start	1	End	7100
Name	OJ000210_20.0419.C17.o2.gs	Method	GENSCAN
Start	4835	End	6584
GI	none	Score	.72
Exons	4835..4837, 5020..5178, 5774..5863, 6462..6584		

Seq. No.	58688	Seq. ID	OJ000210_20.0419.C17
Gene No.	122513	Strand	+
Start	1	End	7100
Name	OJ000210_20.0419.C17.o2.np	Method	AAT/NAP
Start	6269	End	7100
GI	5777617	Score	97
Exons	6269..6381, 6460..6542, 6991..7100		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	58688	Seq. ID	OJ000210_20.0419.C17
Gene No.	122514	Strand	-
Start	6191	End	6593
Name	OJ000210_20.0419.C17.o2.gp	Method	AAT/GAP
Start	6191	End	6593
GI	7406_1.R1084	Score	649
Exons	6191..6593		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	58689	Seq. ID	OJ000210_20.0419.C18
Gene No.	122515	Strand	-
Start	118	End	224
Name	OJ000210_20.0419.C18.o1.np	Method	AAT/NAP
Start	118	End	224
GI	5777617	Score	90
Exons	118..224		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	58689	Seq. ID	OJ000210_20.0419.C18
Gene No.	122516	Strand	-

Start	574	End	3096
Name	OJ000210_20.0419.C18.o1.gs	Method	GENSCAN
Start	574	End	3041
GI	none	Score	.69
Exons	574..1440, 1530..1587, 2335..3041		

Seq. No.	58689	Seq. ID	OJ000210_20.0419.C18
Gene No.	122516	Strand	-
Start	574	End	3096
Name	OJ000210_20.0419.C18.o2.np	Method	AAT/NAP
Start	1563	End	3096
GI	7523488	Score	132
Exons	1563..1674, 2102..2265, 2787..3096		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	58689	Seq. ID	OJ000210_20.0419.C18
Gene No.	122517	Strand	-
Start	3270	End	3378
Name	OJ000210_20.0419.C18.o3.np	Method	AAT/NAP
Start	3270	End	3378
GI	5777617	Score	81
Exons	3270..3378		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	58690	Seq. ID	OJ000210_20.0419.C19
Gene No.	122518	Strand	-
Start	318	End	346
Name	OJ000210_20.0419.C19.o1.gs	Method	GENSCAN
Start	318	End	346
GI	none	Score	.45
Exons	318..346		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o1.gp	Method	AAT/GAP
Start	1	End	2389
GI	25_1.R1084	Score	1880
Exons	1..293, 626..824, 963..1055, 1177..1305, 1621..1674, 1773..1850, 1949..2011, 2277..2389		
GI Descrip.	'2780746/dbj|BAA24364| 0.0e+00 (AB005290) plastid RNA polymerase sigma factor [Oryza sativa]'		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	2495
GI	2780746	Score	1525
Exons	1..293, 626..824, 963..1055, 1177..1305, 1621..1674, 1773..1850, 1949..2011, 2277..2495		
GI Descrip.	(AB005290) plastid RNA polymerase sigma factor [Oryza sativa]		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o1.gs	Method	GENSCAN

Start	13	End	2320
GI	none	Score	.88
Exons	13..293, 626..824, 963..1055, 1177..1305, 1621..1674, 1949..2011, 2231..2320		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	148	End	770
GI	none	Score	169
Exons	148..210, 153..293, 153..290, 154..294, 612..770, 618..764, 623..769		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	151	End	2401
GI	none	Score	88
Exons	151..294, 621..824, 623..817, 657..824, 962..1051, 993..1055, 997..1056, 1174..1305, 1176..1310, 1623..1673, 1624..1680, 1766..1840, 1770..1850, 1949..2011, 2274..2390, 2276..2401, 2276..2401		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	621	End	2390
GI	none	Score	222
Exons	621..824, 623..826, 623..817, 962..1051, 993..1055, 1160..1267, 1174..1305, 1176..1310, 1624..1680, 1638..1679, 1766..1840, 1770..1850, 1949..2011, 1966..2001, 2273..2386, 2274..2390		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o3.tm	Method	TBLASTX:Maize
Start	1004	End	1302
GI	none	Score	94
Exons	1004..1051, 1005..1055, 1174..1269, 1176..1274, 1273..1302, 1276..1302		

Seq. No.	58691	Seq. ID	OJ000210_20.0419.C20
Gene No.	122519	Strand	+
Start	1	End	2495
Name	OJ000210_20.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	1620	End	2342
GI	none	Score	81
Exons	1620..1676, 1620..1682, 1766..1849, 1770..1850, 1949..2011, 1950..2012, 1951..2013, 2274..2342, 2275..2340, 2276..2341		

Seq. No.	58692	Seq. ID	OJ000210_20.0419.C21
Gene No.	122520	Strand	+
Start	1	End	1135
Name	OJ000210_20.0419.C21.o1.np	Method	AAT/NAP

Start	1	End	919
GI	6815097	Score	842
Exons	1..20, 146..919		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	58692	Seq. ID	OJ000210_20.0419.C21
Gene No.	122520	Strand	+
Start	1	End	1135
Name	OJ000210_20.0419.C21.o1.gs	Method	GENSCAN
Start	62	End	949
GI	none	Score	.98
Exons	62..949		

Seq. No.	58692	Seq. ID	OJ000210_20.0419.C21
Gene No.	122520	Strand	+
Start	1	End	1135
Name	OJ000210_20.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	410	End	772
GI	none	Score	197
Exons	410..772		

Seq. No.	58692	Seq. ID	OJ000210_20.0419.C21
Gene No.	122520	Strand	+
Start	1	End	1135
Name	OJ000210_20.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	437	End	751
GI	none	Score	340
Exons	437..751, 439..750		

Seq. No.	58692	Seq. ID	OJ000210_20.0419.C21
Gene No.	122520	Strand	+
Start	1	End	1135
Name	OJ000210_20.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	751	End	1135
GI	none	Score	72
Exons	751..816, 752..814, 871..1083, 873..1085, 875..1087, 881..1135		

Seq. No.	58693	Seq. ID	OJ000210_20.0419.C22
Gene No.	122521	Strand	+
Start	3006	End	3686
Name	OJ000210_20.0419.C22.o2.gs	Method	GENSCAN
Start	3006	End	3686
GI	none	Score	.71
Exons	3006..3470, 3476..3686		

Seq. No.	58693	Seq. ID	OJ000210_20.0419.C22
Gene No.	122522	Strand	-
Start	911	End	3908
Name	OJ000210_20.0419.C22.o1.gs	Method	GENSCAN
Start	911	End	2637
GI	none	Score	.75
Exons	911..993, 1508..1793, 1972..2637		

Seq. No.	58693	Seq. ID	OJ000210_20.0419.C22
Gene No.	122522	Strand	-
Start	911	End	3908

Name	OJ000210_20.0419.C22.o1.np	Method	AAT/NAP
Start	1497	End	3908
GI	5295948	Score	159
Exons	1497..1841, 1911..2097, 2381..2460, 2491..2697, 3884..3908		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	58694	Seq. ID	OJ000210_20.0419.C23
Gene No.	122523	Strand	+
Start	3928	End	4300
Name	OJ000210_20.0419.C23.o1.gp	Method	AAT/GAP
Start	3928	End	4300
GI	4338_1.R1084	Score	582
Exons	3928..3986, 4014..4300		
GI Descrip.	'4959460/gb|AF126053.1|AF126053 7.0e-10 Zea mays RACB small GTP binding protein mRNA, complete cds'		

Seq. No.	58694	Seq. ID	OJ000210_20.0419.C23
Gene No.	122524	Strand	+
Start	7277	End	9273
Name	OJ000210_20.0419.C23.o2.gs	Method	GENSCAN
Start	7277	End	9273
GI	none	Score	.48
Exons	7277..7513, 7988..8104, 8484..8641, 8778..8869, 9197..9273		

Seq. No.	58694	Seq. ID	OJ000210_20.0419.C23
Gene No.	122525	Strand	-
Start	4754	End	7943
Name	OJ000210_20.0419.C23.o1.np	Method	AAT/NAP
Start	4754	End	7943
GI	7486008	Score	257
Exons	4754..4900, 5367..5800, 6778..6864, 6968..7011, 7121..7178, 7842..7943		
GI Descrip.	hypothetical protein F22O6.230 - Arabidopsis thaliana gi|4886288|emb|CAB43446.1| (AL050300) putative protein [Arabidopsis thaliana]		

Seq. No.	58694	Seq. ID	OJ000210_20.0419.C23
Gene No.	122526	Strand	-
Start	9698	End	9781
Name	OJ000210_20.0419.C23.o2.np	Method	AAT/NAP
Start	9698	End	9781
GI	5852084	Score	74
Exons	9698..9781		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	58694	Seq. ID	OJ000210_20.0419.C23
Gene No.	122527	Strand	-
Start	10360	End	11013
Name	OJ000210_20.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	6783	End	7725
GI	none	Score	83
Exons	6783..6872, 6787..6852, 6934..7011, 6957..7040, 6957..7013, 6968..7045, 7107..7178, 7107..7178, 7150..7233, 7298..7402, 7299..7403, 7518..7544, 7675..7725		

Seq. No.	58694	Seq. ID	OJ000210_20.0419.C23
Gene No.	122527	Strand	-

Start	10360	End	11013
Name	OJ000210_20.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	6971	End	7562
GI	none	Score	58
Exons	6971..7045, 6978..7040, 7107..7178, 7150..7179, 7298..7402, 7299..7403, 7518..7562		

Seq. No.	58694	Seq. ID	OJ000210_20.0419.C23
Gene No.	122527	Strand	-
Start	10360	End	11013
Name	OJ000210_20.0419.C23.o3.gs	Method	GENSCAN
Start	10360	End	11013
GI	none	Score	.92
Exons	10360..10449, 10972..11013		

Seq. No.	58695	Seq. ID	OJ000210_20.0419.C24
Gene No.	122528	Strand	+
Start	1007	End	1234
Name	OJ000210_20.0419.C24.o1.gs	Method	GENSCAN
Start	1007	End	1234
GI	none	Score	.46
Exons	1007..1234		

Seq. No.	58696	Seq. ID	OJ000210_20.0419.C25
Gene No.	122529	Strand	+
Start	23	End	408
Name	OJ000210_20.0419.C25.o1.gs	Method	GENSCAN
Start	23	End	408
GI	none	Score	.87
Exons	23..77, 173..408		

Seq. No.	58697	Seq. ID	OJ000210_20.0419.C26
Gene No.	122530	Strand	-
Start	1076	End	1364
Name	OJ000210_20.0419.C26.o1.gp	Method	AAT/GAP
Start	1076	End	1364
GI	426253	Score	522
Exons	1076..1364		

Seq. No.	58698	Seq. ID	OJ000210_20.0419.C28
Gene No.	122531	Strand	+
Start	19	End	902
Name	OJ000210_20.0419.C28.o1.gs	Method	GENSCAN
Start	19	End	902
GI	none	Score	.86
Exons	19..193, 694..902		

Seq. No.	58699	Seq. ID	OJ000210_20.0419.C31
Gene No.	122532	Strand	-
Start	1	End	947
Name	OJ000210_20.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	947
GI	6815097	Score	809
Exons	1..196, 311..947		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	58700	Seq. ID	OJ000210_20.0419.C32
Gene No.	122533	Strand	-
Start	1	End	1570
Name	OJ000210_20.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	1570
GI	6815097	Score	369
Exons	1..724, 1498..1570		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	58701	Seq. ID	OJ000210_20.0419.C33
Gene No.	122534	Strand	+
Start	119	End	269
Name	OJ000210_20.0419.C33.o1.gs	Method	GENSCAN
Start	119	End	269
GI	none	Score	.47
Exons	119..269		

Seq. No.	58702	Seq. ID	OJ000210_20.0419.C35
Gene No.	122535	Strand	-
Start	1	End	686
Name	OJ000210_20.0419.C35.o1.gp	Method	AAT/GAP
Start	1	End	686
GI	2311644	Score	476
Exons	1..100, 266..334, 515..686		

Seq. No.	58702	Seq. ID	OJ000210_20.0419.C35
Gene No.	122535	Strand	-
Start	1	End	686
Name	OJ000210_20.0419.C35.o1.gs	Method	GENSCAN
Start	65	End	613
GI	none	Score	.7
Exons	65..100, 266..334, 515..613		

Seq. No.	58703	Seq. ID	OJ000210_20.0419.C36
Gene No.	122536	Strand	+
Start	2134	End	3076
Name	OJ000210_20.0419.C36.o1.np	Method	AAT/NAP
Start	2134	End	3076
GI	6729546	Score	235
Exons	2134..2455, 2706..3076		
GI Descrip.	(AL132977) putative protein [Arabidopsis thaliana]		

Seq. No.	58703	Seq. ID	OJ000210_20.0419.C36
Gene No.	122537	Strand	-
Start	3125	End	3600
Name	OJ000210_20.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	2609	End	3166
GI	none	Score	106
Exons	2609..2713, 2610..2714, 2610..2720, 2720..2932, 2721..3011, 2736..2966, 2737..2979, 2943..3053, 3025..3063, 3051..3101, 3054..3101, 3104..3160, 3122..3166		

Seq. No.	58703	Seq. ID	OJ000210_20.0419.C36
Gene No.	122537	Strand	-
Start	3125	End	3600
Name	OJ000210_20.0419.C36.o1.tc	Method	TBLASTX:Cress

Start	2762	End	2945
GI	none	Score	261
Exons	2762..2929, 2763..2945		

Seq. No.	58703	Seq. ID	OJ000210_20.0419.C36
Gene No.	122537	Strand	-
Start	3125	End	3600
Name	OJ000210_20.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	2762	End	3017
GI	none	Score	261
Exons	2762..2860, 2763..2945, 2763..2963, 2976..3017		

Seq. No.	58703	Seq. ID	OJ000210_20.0419.C36
Gene No.	122537	Strand	-
Start	3125	End	3600
Name	OJ000210_20.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	2765	End	2950
GI	none	Score	277
Exons	2765..2932, 2766..2945, 2801..2950		

Seq. No.	58703	Seq. ID	OJ000210_20.0419.C36
Gene No.	122537	Strand	-
Start	3125	End	3600
Name	OJ000210_20.0419.C36.o1.gp	Method	AAT/GAP
Start	3125	End	3600
GI	none	Score	920
Exons	3125..3600		

Seq. No.	58704	Seq. ID	OJ000210_20.0419.C37
Gene No.	122538	Strand	-
Start	1426	End	2039
Name	OJ000210_20.0419.C37.o1.gs	Method	GENSCAN
Start	1426	End	2039
GI	none	Score	.97
Exons	1426..1776, 1881..2039		

Seq. No.	58705	Seq. ID	OJ000210_20.0419.C38
Gene No.	122539	Strand	+
Start	16	End	1807
Name	OJ000210_20.0419.C38.o1.gs	Method	GENSCAN
Start	16	End	1807
GI	none	Score	.51
Exons	16..118, 135..413, 561..659, 734..849, 883..980, 1372..1564, 1703..1807		

Seq. No.	58705	Seq. ID	OJ000210_20.0419.C38
Gene No.	122540	Strand	+
Start	1744	End	1895
Name	OJ000210_20.0419.C38.o1.gp	Method	AAT/GAP
Start	1744	End	1895
GI	7406_1.R1084	Score	180
Exons	1744..1895		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	58705	Seq. ID	OJ000210_20.0419.C38
Gene No.	122541	Strand	+

Start	2344	End	2409
Name	OJ000210_20.0419.C38.o2.np	Method	AAT/NAP
Start	2344	End	2409
GI	7228442	Score	114
Exons	2344..2409		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	58705	Seq. ID	OJ000210_20.0419.C38
Gene No.	122542	Strand	-
Start	1	End	2409
Name	OJ000210_20.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	2409
GI	3153821	Score	115
Exons	1..311, 847..949, 1400..1549, 2388..2409		
GI Descrip.	(AF062655) plenty-of-prolines-101; POP101; SH3-philo-protein [Mus musculus]		

Seq. No.	58706	Seq. ID	OJ000210_20.0419.C39
Gene No.	122543	Strand	-
Start	924	End	1113
Name	OJ000210_20.0419.C39.o1.gs	Method	GENSCAN
Start	924	End	1113
GI	none	Score	93
Exons	924..1113		

Seq. No.	58707	Seq. ID	OJ000210_20.0419.C40
Gene No.	122544	Strand	+
Start	47	End	3965
Name	OJ000210_20.0419.C40.o1.gs	Method	GENSCAN
Start	47	End	3965
GI	none	Score	.69
Exons	47..548, 754..1005, 1776..1811, 2048..2194, 3885..3965		

Seq. No.	58707	Seq. ID	OJ000210_20.0419.C40
Gene No.	122545	Strand	+
Start	9245	End	9634
Name	OJ000210_20.0419.C40.o1.gp	Method	AAT/GAP
Start	9245	End	9634
GI	none	Score	780
Exons	9245..9634		

Seq. No.	58707	Seq. ID	OJ000210_20.0419.C40
Gene No.	122546	Strand	-
Start	4954	End	10885
Name	OJ000210_20.0419.C40.o2.gs	Method	GENSCAN
Start	4954	End	10849
GI	none	Score	.69
Exons	4954..5421, 5489..5679, 6060..6168, 7442..7598, 7680..7854, 8298..8433, 8749..9201, 9312..9453, 9458..10195, 10272..10849		

Seq. No.	58707	Seq. ID	OJ000210_20.0419.C40
Gene No.	122546	Strand	-
Start	4954	End	10885
Name	OJ000210_20.0419.C40.o1.np	Method	AAT/NAP
Start	9487	End	10849

GI	7487490	Score	597
Exons	9487..9930, 9967..10195, 10241..10849		
GI Descrip.	hypothetical protein T27I1.4 - Arabidopsis thaliana gi|3540181|gb|AAC34331.1| (AC004122) Unknown protein [Arabidopsis thaliana]		

Seq. No.	58707	Seq. ID	OJ000210_20.0419.C40
Gene No.	122546	Strand	-
Start	4954	End	10885
Name	OJ000210_20.0419.C40.o2.tc	Method	TBLASTX:Cress
Start	9523	End	9714
GI	none	Score	96
Exons	9523..9714, 9605..9706		

Seq. No.	58707	Seq. ID	OJ000210_20.0419.C40
Gene No.	122546	Strand	-
Start	4954	End	10885
Name	OJ000210_20.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	10340	End	10885
GI	none	Score	69
Exons	10340..10435, 10341..10436, 10427..10540, 10434..10517, 10541..10756, 10608..10757, 10790..10885		

Seq. No.	58707	Seq. ID	OJ000210_20.0419.C40
Gene No.	122546	Strand	-
Start	4954	End	10885
Name	OJ000210_20.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	10436	End	10849
GI	none	Score	59
Exons	10436..10540, 10437..10541, 10541..10756, 10545..10757, 10763..10849		

Seq. No.	58708	Seq. ID	OJ000210_20.0419.C41
Gene No.	122547	Strand	+
Start	88	End	504
Name	OJ000210_20.0419.C41.o1.gs	Method	GENSCAN
Start	88	End	504
GI	none	Score	.97
Exons	88..504		

Seq. No.	58708	Seq. ID	OJ000210_20.0419.C41
Gene No.	122548	Strand	-
Start	1164	End	1805
Name	OJ000210_20.0419.C41.o2.gs	Method	GENSCAN
Start	1164	End	1699
GI	none	Score	.79
Exons	1164..1227, 1460..1518, 1628..1699		

Seq. No.	58708	Seq. ID	OJ000210_20.0419.C41
Gene No.	122548	Strand	-
Start	1164	End	1805
Name	OJ000210_20.0419.C41.o1.gp	Method	AAT/GAP
Start	1460	End	1805
GI	none	Score	628
Exons	1460..1805		

Seq. No.	58709	Seq. ID	OJ000210_20.0419.C46

Gene No.	122549	Strand	+
Start	450	End	632
Name	OJ000210_20.0419.C46.o1.gs	Method	GENSCAN
Start	450	End	632
GI	none	Score	.58
Exons	450..632		

Seq. No.	58709	Seq. ID	OJ000210_20.0419.C46
Gene No.	122550	Strand	-
Start	1	End	207
Name	OJ000210_20.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	207
GI	7340909	Score	100
Exons	1..207		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	58710	Seq. ID	OJ000210_20.0419.C52
Gene No.	122551	Strand	-
Start	855	End	1010
Name	OJ000210_20.0419.C52.o1.gs	Method	GENSCAN
Start	855	End	1010
GI	none	Score	.63
Exons	855..1010		

Seq. No.	58711	Seq. ID	OJ000210_20.0419.C53
Gene No.	122552	Strand	-
Start	495	End	913
Name	OJ000210_20.0419.C53.o1.gs	Method	GENSCAN
Start	495	End	913
GI	none	Score	.87
Exons	495..652, 790..913		

Seq. No.	58712	Seq. ID	OJ000210_20.0419.C57
Gene No.	122553	Strand	-
Start	1	End	1044
Name	OJ000210_20.0419.C57.o1.np	Method	AAT/NAP
Start	1	End	521
GI	6682620	Score	235
Exons	1..521		
GI Descrip.	(AC016163) unknown protein [Arabidopsis thaliana]		

Seq. No.	58712	Seq. ID	OJ000210_20.0419.C57
Gene No.	122553	Strand	-
Start	1	End	1044
Name	OJ000210_20.0419.C57.o1.gs	Method	GENSCAN
Start	28	End	1044
GI	none	Score	.5
Exons	28..401, 979..1044		

Seq. No.	58713	Seq. ID	OJ000210_20.0419.C64
Gene No.	122554	Strand	-
Start	434	End	642
Name	OJ000210_20.0419.C64.o1.gs	Method	GENSCAN
Start	434	End	642
GI	none	Score	.43
Exons	434..642		

Seq. No.	58714	Seq. ID	OJ000210_20.0419.C65
Gene No.	122555	Strand	-
Start	1	End	1560
Name	OJ000210_20.0419.C65.o1.np	Method	AAT/NAP
Start	1	End	1560
GI	6539553	Score	2130
Exons	1..60, 311..1560		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	58714	Seq. ID	OJ000210_20.0419.C65
Gene No.	122555	Strand	-
Start	1	End	1560
Name	OJ000210_20.0419.C65.o1.ts	Method	TBLASTX:Soybean
Start	319	End	655
GI	none	Score	98
Exons	319..414, 431..655, 477..647		

Seq. No.	58714	Seq. ID	OJ000210_20.0419.C65
Gene No.	122555	Strand	-
Start	1	End	1560
Name	OJ000210_20.0419.C65.o1.tw	Method	TBLASTX:Wheat
Start	431	End	799
GI	none	Score	96
Exons	431..577, 442..588, 468..575, 551..799, 566..799		

Seq. No.	58714	Seq. ID	OJ000210_20.0419.C65
Gene No.	122555	Strand	-
Start	1	End	1560
Name	OJ000210_20.0419.C65.o2.tm	Method	TBLASTX:Maize
Start	443	End	877
GI	none	Score	83
Exons	443..877, 468..668		

Seq. No.	58714	Seq. ID	OJ000210_20.0419.C65
Gene No.	122555	Strand	-
Start	1	End	1560
Name	OJ000210_20.0419.C65.o1.gs	Method	GENSCAN
Start	489	End	1378
GI	none	Score	.71
Exons	489..1378		

Seq. No.	58714	Seq. ID	OJ000210_20.0419.C65
Gene No.	122555	Strand	-
Start	1	End	1560
Name	OJ000210_20.0419.C65.o2.ts	Method	TBLASTX:Soybean
Start	665	End	1051
GI	none	Score	88
Exons	665..913, 896..1051		

Seq. No.	58714	Seq. ID	OJ000210_20.0419.C65
Gene No.	122555	Strand	-
Start	1	End	1560
Name	OJ000210_20.0419.C65.o1.tm	Method	TBLASTX:Maize
Start	1078	End	1400

GI	none	Score	395
Exons	1078..1245, 1079..1393, 1080..1373, 1146..1400		

Seq. No.	58715	Seq. ID	OJ000210_20.0419.C69
Gene No.	122556	Strand	+
Start	66	End	317
Name	OJ000210_20.0419.C69.o1.np	Method	AAT/NAP
Start	66	End	317
GI	7106513	Score	148
Exons	66..109, 209..317		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	58715	Seq. ID	OJ000210_20.0419.C69
Gene No.	122557	Strand	-
Start	120	End	387
Name	OJ000210_20.0419.C69.o1.gs	Method	GENSCAN
Start	120	End	387
GI	none	Score	.56
Exons	120..387		

Seq. No.	58716	Seq. ID	OJ000210_20.0419.C70
Gene No.	122558	Strand	-
Start	1	End	1457
Name	OJ000210_20.0419.C70.o1.np	Method	AAT/NAP
Start	1	End	1457
GI	7106512	Score	774
Exons	1..152, 786..1457		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	58716	Seq. ID	OJ000210_20.0419.C70
Gene No.	122558	Strand	-
Start	1	End	1457
Name	OJ000210_20.0419.C70.o1.gs	Method	GENSCAN
Start	16	End	1366
GI	none	Score	.73
Exons	16..151, 873..1366		

Seq. No.	58717	Seq. ID	OJ000310_28.0419.C4
Gene No.	122559	Strand	+
Start	342	End	466
Name	OJ000310_28.0419.C4.o1.gs	Method	GENSCAN
Start	342	End	466
GI	none	Score	.9
Exons	342..466		

Seq. No.	58717	Seq. ID	OJ000310_28.0419.C4
Gene No.	122560	Strand	+
Start	1635	End	1776
Name	OJ000310_28.0419.C4.o1.gp	Method	AAT/GAP
Start	1635	End	1776
GI	16912_1.R1084	Score	231
Exons	1635..1776		
GI Descrip.	'2497883/sp|Q40633|MT1_ORYSA 2.0e-18 METALLOTHIONEIN-LIKE PROTEIN TYPE 1 >gi_1362174_pir__S57768 metallothionein-like protein - rice >gi_687638 (U18404) metallothionein-like protein [Oryza sativa] >gi_1815626 (U43529) metallothionein-like type 1		

[Oryza sativa] >gi_4097154_gb_AAD10376.1_ (U46159) type 1 rice metallothionein-like gene; Method: conceptual translation supplied by author.'

Seq. No.	58718	Seq. ID	OJ000310_28.0419.C5
Gene No.	122561	Strand	+
Start	1	End	87
Name	OJ000310_28.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	87
GI	2497883	Score	135
Exons	1..87		
GI Descrip.	METALLOTHIONEIN-LIKE PROTEIN TYPE 1 gi|1362174|pir||S57768 metallothionein-like protein - rice gi|687638 (U18404) metallothionein-like protein [Oryza sativa] gi|1815626 (U43529) metallothionein-like type 1 [Oryza sativa] gi|4097154|gb|AAD10376.1| (U46159) type 1 rice metallothionein-like gene; Method: conceptual translation supplied by author. [Oryza sativa]		

Seq. No.	58718	Seq. ID	OJ000310_28.0419.C5
Gene No.	122562	Strand	+
Start	1113	End	1268
Name	OJ000310_28.0419.C5.o1.gs	Method	GENSCAN
Start	1113	End	1268
GI	none	Score	.86
Exons	1113..1268		

Seq. No.	58718	Seq. ID	OJ000310_28.0419.C5
Gene No.	122563	Strand	+
Start	2088	End	2287
Name	OJ000310_28.0419.C5.o2.gs	Method	GENSCAN
Start	2088	End	2287
GI	none	Score	.47
Exons	2088..2167, 2253..2287		

Seq. No.	58718	Seq. ID	OJ000310_28.0419.C5
Gene No.	122564	Strand	-
Start	1	End	378
Name	OJ000310_28.0419.C5.o1.gp	Method	AAT/GAP
Start	1	End	378
GI	16912_1.R1084	Score	739
Exons	1..378		
GI Descrip.	'2497883/sp|Q40633|MT1_ORYSA 2.0e-18 METALLOTHIONEIN-LIKE PROTEIN TYPE 1 >gi_1362174_pir__S57768 metallothionein-like protein - rice >gi_687638 (U18404) metallothionein-like protein [Oryza sativa] >gi_1815626 (U43529) metallothionein-like type 1 [Oryza sativa] >gi_4097154_gb_AAD10376.1_ (U46159) type 1 rice metallothionein-like gene; Method: conceptual translation supplied by author.'		

Seq. No.	58719	Seq. ID	OJ000310_28.0419.C7
Gene No.	122565	Strand	+
Start	444	End	2155
Name	OJ000310_28.0419.C7.o1.gs	Method	GENSCAN
Start	444	End	2145
GI	none	Score	.69
Exons	444..867, 1350..1640, 1995..2145		

Seq. No.	58719	Seq. ID	OJ000310_28.0419.C7
Gene No.	122565	Strand	+
Start	444	End	2155
Name	OJ000310_28.0419.C7.o1.np	Method	AAT/NAP
Start	452	End	2155
GI	4234846	Score	1307
Exons	452..612, 655..2155		
GI Descrip.	(AF082130) gag-pol polyprotein [Zea mays]		

Seq. No.	58719	Seq. ID	OJ000310_28.0419.C7
Gene No.	122565	Strand	+
Start	444	End	2155
Name	OJ000310_28.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	544	End	1493
GI	none	Score	339
Exons	544..930, 545..922, 751..924, 918..1112, 922..1122, 1031..1135, 1207..1296, 1236..1277, 1401..1451, 1401..1493		

Seq. No.	58719	Seq. ID	OJ000310_28.0419.C7
Gene No.	122565	Strand	+
Start	444	End	2155
Name	OJ000310_28.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	1771	End	2151
GI	none	Score	311
Exons	1771..2151, 1782..1988		

Seq. No.	58719	Seq. ID	OJ000310_28.0419.C7
Gene No.	122565	Strand	+
Start	444	End	2155
Name	OJ000310_28.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	1930	End	2154
GI	none	Score	223
Exons	1930..2154, 1954..2154		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	2150
GI	4234854	Score	2320
Exons	1..2150		
GI Descrip.	(AF082134) pol polyprotein [Zea mays]		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o1.gs	Method	GENSCAN
Start	191	End	1054
GI	none	Score	.71
Exons	191..481, 488..734, 858..1054		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	641	End	1077

GI	5509260	Score	297
Exons	641..997, 730..1002, 1033..1077, 1044..1076		
GI Descrip.	-		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	641	End	949
GI	none	Score	257
Exons	641..949, 649..948		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	728	End	988
GI	none	Score	231
Exons	728..988, 730..966		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	769	End	1558
GI	none	Score	253
Exons	769..996, 770..1036, 770..1000, 988..1122, 1033..1113, 1098..1355, 1099..1356, 1336..1557, 1352..1558		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	1213	End	1641
GI	none	Score	64
Exons	1213..1350, 1346..1639, 1486..1641		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o3.ts	Method	TBLASTX:Soybean
Start	1532	End	2048
GI	none	Score	113
Exons	1532..1714, 1740..1919, 1908..2048		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	1733	End	2099
GI	none	Score	207
Exons	1733..1936, 1740..2018, 2070..2099		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o2.gs	Method	GENSCAN

Start	1815	End	9039
GI	none	Score	.57
Exons	1815..2002, 2462..2635, 3781..3864, 4001..4038, 6325..6343, 6558..6632, 7578..7706, 8853..9039		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o1.gp	Method	AAT/GAP
Start	3386	End	4156
GI	LIB3433-060-P1-K1-E12	Score	620
Exons	3386..3512, 3781..3864, 4001..4156		
GI Descrip.	'2497883/sp|Q40633|MT1_ORYSA 2.0e-15 METALLOTHIONEIN-LIKE PROTEIN TYPE 1 >gi_1362174_pir__S57768 metallothionein-like protein - rice >gi_687638 (U18404) metallothionein-like protein [Oryza sativa] >gi_1815626 (U43529) metallothionein-like type 1 [Oryza sativa] >gi_4097154_gb_AAD10376.1_ (U46159) type 1 rice metallothionein-like gene; Method: conceptual translation supplied by'		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o2.np	Method	AAT/NAP
Start	3460	End	6651
GI	266578	Score	202
Exons	3460..3512, 3781..3872, 6563..6651		
GI Descrip.	METALLOTHIONEIN-LIKE PROTEIN 1 gi|100898|pir||S17560 metallothionein-like protein - maize gi|236730|gb|AAB19992.1| (S57628) metallothionein homologue [Zea mays, Peptide, 76 aa] gi|559536|emb|CAA57676.1| (X82186) metallothionein- like protein [Zea mays] gi|228095|prf||1717215A metallothionein-like protein [Zea mays]		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o2.gp	Method	AAT/GAP
Start	5969	End	6898
GI	14913_1.R1084	Score	983
Exons	5969..6082, 6325..6407, 6558..6898		
GI Descrip.	'2407287/gb|AAB70546| 1.0e-13 (AF017366) metallothionein-like protein [Oryza sativa]'		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o3.gp	Method	AAT/GAP
Start	7558	End	9048
GI	946_1.R1084	Score	666
Exons	7558..7706, 8853..9048		
GI Descrip.	'5107214/gb|AAD40019.1|AF150113_1 2.0e-48 (AF150113) small zinc finger-like protein [Oryza sativa]'		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048

Name	OJ000310_28.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	7612	End	9039
GI	none	Score	120
Exons	7612..7704, 8850..9014, 8851..9039		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	7612	End	9044
GI	none	Score	155
Exons	7612..7704, 7630..7704, 7668..7757, 8848..9039, 8850..9044, 8851..9039		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o3.np	Method	AAT/NAP
Start	7612	End	9036
GI	5107214	Score	446
Exons	7612..7706, 8853..9036		
GI Descrip.	(AF150113) small zinc finger-like protein [Oryza sativa]		

Seq. No.	58720	Seq. ID	OJ000310_28.0419.C8
Gene No.	122566	Strand	+
Start	1	End	9048
Name	OJ000310_28.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	7612	End	9044
GI	none	Score	124
Exons	7612..7704, 7633..7704, 8848..9039, 8849..8944, 8850..9041, 8851..9039, 8922..9044		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122567	Strand	+
Start	1118	End	1966
Name	OJ000310_28.0419.C9.o1.gs	Method	GENSCAN
Start	1118	End	1966
GI	none	Score	.91
Exons	1118..1966		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122568	Strand	+
Start	7280	End	8489
Name	OJ000310_28.0419.C9.o3.gs	Method	GENSCAN
Start	7280	End	8489
GI	none	Score	.53
Exons	7280..7635, 7650..7784, 8465..8489		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122569	Strand	+
Start	11128	End	11580
Name	OJ000310_28.0419.C9.o4.gs	Method	GENSCAN
Start	11128	End	11580
GI	none	Score	1
Exons	11128..11580		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9

Gene No.	122570	Strand	+
Start	13372	End	20338
Name	OJ000310_28.0419.C9.o6.gs	Method	GENSCAN
Start	13372	End	20338
GI	none	Score	.42
Exons	13372..13742, 16948..17001, 18378..18558, 18593..18796, 19063..19345, 19818..20338		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122571	Strand	+
Start	21909	End	28347
Name	OJ000310_28.0419.C9.o7.gs	Method	GENSCAN
Start	21909	End	27415
GI	none	Score	.57
Exons	21909..21977, 24685..24795, 25572..25641, 26245..26359, 26394..26490, 26618..26748, 27315..27415		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122571	Strand	+
Start	21909	End	28347
Name	OJ000310_28.0419.C9.o3.np	Method	AAT/NAP
Start	26389	End	28347
GI	773663	Score	146
Exons	26389..26448, 26600..26680, 26813..26921, 27315..27415, 27910..27971, 28066..28205, 28253..28347		
GI Descrip.	(U23830) similar to C. elegans cleavage stimulation factor encoded by GenBank Accession Number L39893; Drosophila su(f) homolog, similar to Swiss-Prot Accession Number P25991 [Caenorhabditis elegans]		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122572	Strand	-
Start	1136	End	1784
Name	OJ000310_28.0419.C9.o1.np	Method	AAT/NAP
Start	1136	End	1784
GI	7076785	Score	489
Exons	1136..1784		
GI Descrip.	(AL132975) putative protein [Arabidopsis thaliana]		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122573	Strand	-
Start	4986	End	5444
Name	OJ000310_28.0419.C9.o2.gs	Method	GENSCAN
Start	4986	End	5444
GI	none	Score	.98
Exons	4986..5444		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122574	Strand	-
Start	11922	End	12107
Name	OJ000310_28.0419.C9.o5.gs	Method	GENSCAN
Start	11922	End	12107
GI	none	Score	.95
Exons	11922..12107		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122575	Strand	-

Start	17879	End	26953
Name	OJ000310_28.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1172	End	1728
GI	none	Score	37
Exons	1172..1354, 1326..1355, 1361..1570, 1377..1550, 1616..1678, 1672..1728		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122575	Strand	-
Start	17879	End	26953
Name	OJ000310_28.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1304	End	1552
GI	none	Score	43
Exons	1304..1354, 1319..1354, 1358..1552, 1362..1550		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122575	Strand	-
Start	17879	End	26953
Name	OJ000310_28.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1373	End	1734
GI	none	Score	115
Exons	1373..1420, 1451..1567, 1455..1550, 1681..1734		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122575	Strand	-
Start	17879	End	26953
Name	OJ000310_28.0419.C9.o2.np	Method	AAT/NAP
Start	17879	End	26953
GI	5042454	Score	158
Exons	17879..17939, 18367..18535, 26874..26953		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	58721	Seq. ID	OJ000310_28.0419.C9
Gene No.	122576	Strand	
Start	28066	End	28209
Name	OJ000310_28.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	28066	End	28209
GI	none	Score	44
Exons	28066..28095, 28071..28097, 28096..28209, 28098..28205, 28099..28206		

Seq. No.	58722	Seq. ID	OJ000310_28.0419.C10
Gene No.	122577	Strand	+
Start	517	End	988
Name	OJ000310_28.0419.C10.o1.gs	Method	GENSCAN
Start	517	End	988
GI	none	Score	.54
Exons	517..544, 925..988		

Seq. No.	58723	Seq. ID	OJ000310_28.0419.C12
Gene No.	122578	Strand	-
Start	1	End	15585
Name	OJ000310_28.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	15585
GI	3980411	Score	108
Exons	1..25, 9897..10433, 15509..15585		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	58723	Seq. ID	OJ000310_28.0419.C12
Gene No.	122578	Strand	-
Start	1	End	15585
Name	OJ000310_28.0419.C12.o1.gs	Method	GENSCAN
Start	51	End	494
GI	none	Score	.7
Exons	51..206, 440..494		

Seq. No.	58723	Seq. ID	OJ000310_28.0419.C12
Gene No.	122578	Strand	-
Start	1	End	15585
Name	OJ000310_28.0419.C12.o2.gs	Method	GENSCAN
Start	3025	End	3639
GI	none	Score	.89
Exons	3025..3475, 3551..3639		

Seq. No.	58723	Seq. ID	OJ000310_28.0419.C12
Gene No.	122578	Strand	-
Start	1	End	15585
Name	OJ000310_28.0419.C12.o4.gs	Method	GENSCAN
Start	11837	End	12253
GI	none	Score	.96
Exons	11837..12253		

Seq. No.	58723	Seq. ID	OJ000310_28.0419.C12
Gene No.	122578	Strand	-
Start	1	End	15585
Name	OJ000310_28.0419.C12.o5.gs	Method	GENSCAN
Start	13889	End	14014
GI	none	Score	.9
Exons	13889..14014		

Seq. No.	58724	Seq. ID	OJ000310_28.0419.C13
Gene No.	122579	Strand	-
Start	38	End	147
Name	OJ000310_28.0419.C13.o1.gs	Method	GENSCAN
Start	38	End	147
GI	none	Score	.87
Exons	38..147		

Seq. No.	58725	Seq. ID	OJ000310_28.0419.C14
Gene No.	122580	Strand	-
Start	33	End	2087
Name	OJ000310_28.0419.C14.o1.np	Method	AAT/NAP
Start	33	End	1458
GI	5852084	Score	90
Exons	33..116, 1426..1458		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	58725	Seq. ID	OJ000310_28.0419.C14
Gene No.	122580	Strand	-
Start	33	End	2087
Name	OJ000310_28.0419.C14.o1.gs	Method	GENSCAN
Start	748	End	2060
GI	none	Score	.91
Exons	748..869, 1190..1220, 1458..1532, 1992..2060		

Seq. No.	58725	Seq. ID	OJ000310_28.0419.C14
Gene No.	122580	Strand	-
Start	33	End	2087
Name	OJ000310_28.0419.C14.o2.np	Method	AAT/NAP
Start	1675	End	2087
GI	6815109	Score	85
Exons	1675..1765, 1792..2087		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	58726	Seq. ID	OJ000310_28.0419.C15
Gene No.	122581	Strand	+
Start	923	End	1310
Name	OJ000310_28.0419.C15.o1.gp	Method	AAT/GAP
Start	923	End	1310
GI	none	Score	745
Exons	923..1310		

Seq. No.	58726	Seq. ID	OJ000310_28.0419.C15
Gene No.	122582	Strand	-
Start	1044	End	2104
Name	OJ000310_28.0419.C15.o1.gs	Method	GENSCAN
Start	1044	End	2104
GI	none	Score	.41
Exons	1044..1219, 2064..2104		

Seq. No.	58727	Seq. ID	OJ000450_20.0420.C1
Gene No.	122583	Strand	+
Start	241	End	1070
Name	OJ000450_20.0420.C1.o1.gp	Method	AAT/GAP
Start	241	End	1070
GI	840_1.R1084	Score	1645
Exons	241..1070		
GI Descrip.	'4105681 1.0e-141 (AF049348) unknown [Oryza sativa]'		

Seq. No.	58727	Seq. ID	OJ000450_20.0420.C1
Gene No.	122583	Strand	+
Start	241	End	1070
Name	OJ000450_20.0420.C1.o1.gs	Method	GENSCAN
Start	303	End	1006
GI	none	Score	.96
Exons	303..1006		

Seq. No.	58727	Seq. ID	OJ000450_20.0420.C1
Gene No.	122583	Strand	+
Start	241	End	1070
Name	OJ000450_20.0420.C1.o1.np	Method	AAT/NAP
Start	303	End	1070
GI	4105681	Score	1488
Exons	303..1070		
GI Descrip.	(AF049348) unknown [Oryza sativa]		

Seq. No.	58727	Seq. ID	OJ000450_20.0420.C1
Gene No.	122583	Strand	+
Start	241	End	1070
Name	OJ000450_20.0420.C1.o1.tm	Method	TBLASTX:Maize
Start	402	End	1022

GI	none	Score	81
Exons	402..458, 591..635, 597..647, 603..647, 632..784, 636..749, 678..869, 686..763, 687..758, 687..794, 705..767, 705..797, 713..769, 729..869, 756..881, 770..856, 771..869, 807..881, 822..872, 825..872, 924..1013, 930..1022, 939..1022, 939..1004, 942..1022		

Seq. No.	58728	Seq. ID	OJ000450_20.0420.C2
Gene No.	122584	Strand	+
Start	131	End	772
Name	OJ000450_20.0420.C2.o1.gp	Method	AAT/GAP
Start	131	End	772
GI	none	Score	134
Exons	131..177, 698..772		

Seq. No.	58728	Seq. ID	OJ000450_20.0420.C2
Gene No.	122585	Strand	-
Start	1	End	9369
Name	OJ000450_20.0420.C2.o1.np	Method	AAT/NAP
Start	1	End	3694
GI	7542514	Score	319
Exons	1..310, 380..439, 799..917, 3523..3694		
GI Descrip.	(AF237944) HCF106C precursor protein [Zea mays] gi|7542516|gb|AAF63480.1|AF237945_1 (AF237945) HCF106C precursor protein [Zea mays]		

Seq. No.	58728	Seq. ID	OJ000450_20.0420.C2
Gene No.	122585	Strand	-
Start	1	End	9369
Name	OJ000450_20.0420.C2.o3.np	Method	AAT/NAP
Start	1	End	9369
GI	7428718	Score	125
Exons	1..155, 4514..4598, 4818..4913, 5537..5629, 9346..9369		
GI Descrip.	probable kinesin - Arabidopsis thaliana gi|2244771|emb|CAB10194.1| (Z97335) kinesin like protein [Arabidopsis thaliana] gi|7268120|emb|CAB78457.1| (AL161538) kinesin like protein [Arabidopsis thaliana]		

Seq. No.	58728	Seq. ID	OJ000450_20.0420.C2
Gene No.	122585	Strand	-
Start	1	End	9369
Name	OJ000450_20.0420.C2.o1.tm	Method	TBLASTX:Maize
Start	194	End	912
GI	none	Score	138
Exons	194..313, 194..310, 378..440, 378..440, 379..441, 380..442, 796..912, 797..886		

Seq. No.	58728	Seq. ID	OJ000450_20.0420.C2
Gene No.	122585	Strand	-
Start	1	End	9369
Name	OJ000450_20.0420.C2.o2.np	Method	AAT/NAP
Start	3206	End	4334
GI	7340909	Score	89
Exons	3206..3338, 3978..4334		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	58729	Seq. ID	OJ000450_20.0420.C3

Gene No.	122586	Strand	+
Start	2680	End	2921
Name	OJ000450_20.0420.C3.o1.gs	Method	GENSCAN
Start	2680	End	2921
GI	none	Score	.44
Exons	2680..2921		

Seq. No.	58729	Seq. ID	OJ000450_20.0420.C3
Gene No.	122587	Strand	+
Start	4753	End	9414
Name	OJ000450_20.0420.C3.o3.gs	Method	GENSCAN
Start	4753	End	9414
GI	none	Score	.68
Exons	4753..4794, 5168..5358, 6549..6673, 7565..7800, 7802..8185, 8706..8983, 9075..9108, 9376..9414		

Seq. No.	58729	Seq. ID	OJ000450_20.0420.C3
Gene No.	122588	Strand	+
Start	11603	End	12327
Name	OJ000450_20.0420.C3.o2.np	Method	AAT/NAP
Start	11603	End	12327
GI	7248393	Score	221
Exons	11603..11881, 11924..11971, 12003..12327		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	58729	Seq. ID	OJ000450_20.0420.C3
Gene No.	122588	Strand	+
Start	11603	End	12327
Name	OJ000450_20.0420.C3.o4.gs	Method	GENSCAN
Start	11603	End	12232
GI	none	Score	.98
Exons	11603..12232		

Seq. No.	58729	Seq. ID	OJ000450_20.0420.C3
Gene No.	122589	Strand	-
Start	3804	End	4172
Name	OJ000450_20.0420.C3.o2.gs	Method	GENSCAN
Start	3804	End	4172
GI	none	Score	.88
Exons	3804..3931, 4064..4172		

Seq. No.	58729	Seq. ID	OJ000450_20.0420.C3
Gene No.	122590	Strand	-
Start	7131	End	8030
Name	OJ000450_20.0420.C3.o1.np	Method	AAT/NAP
Start	7131	End	8030
GI	5852178	Score	444
Exons	7131..7241, 7593..7681, 7713..8030		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o1.np	Method	AAT/NAP
Start	386	End	2780
GI	7248394	Score	1839
Exons	386..1308, 1576..2621, 2700..2780		

GI Descrip. (AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o1.gs	Method	GENSCAN
Start	398	End	2677
GI	none	Score	.61
Exons	398..912, 1028..1638, 1816..2081, 2576..2677		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o4.ts	Method	TBLASTX:Soybean
Start	530	End	868
GI	none	Score	202
Exons	530..868		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o2.ts	Method	TBLASTX:Soybean
Start	1278	End	1643
GI	none	Score	138
Exons	1278..1502, 1509..1643		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o1.tw	Method	TBLASTX:Wheat
Start	1440	End	1844
GI	none	Score	81
Exons	1440..1496, 1445..1486, 1491..1844, 1499..1801, 1500..1841		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o2.tm	Method	TBLASTX:Maize
Start	1494	End	1712
GI	none	Score	276
Exons	1494..1712, 1499..1711		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o1.tm	Method	TBLASTX:Maize
Start	1713	End	2171
GI	none	Score	544
Exons	1713..2171, 1713..2099, 1862..2170		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780

Name	OJ000450_20.0420.C4.o1.ts	Method	TBLASTX:Soybean
Start	1860	End	2329
GI	none	Score	216
Exons	1860..2141, 1898..1990, 2180..2329, 2185..2316		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o2.tw	Method	TBLASTX:Wheat
Start	1862	End	2165
GI	none	Score	207
Exons	1862..2125, 1863..2165		

Seq. No.	58730	Seq. ID	OJ000450_20.0420.C4
Gene No.	122591	Strand	+
Start	386	End	2780
Name	OJ000450_20.0420.C4.o3.ts	Method	TBLASTX:Soybean
Start	2480	End	2779
GI	none	Score	140
Exons	2480..2617, 2482..2613, 2639..2779		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122592	Strand	+
Start	1	End	1320
Name	OJ000450_20.0420.C5.o1.np	Method	AAT/NAP
Start	1	End	1275
GI	4544372	Score	597
Exons	1..1275		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122592	Strand	+
Start	1	End	1320
Name	OJ000450_20.0420.C5.o1.gs	Method	GENSCAN
Start	25	End	1173
GI	none	Score	.99
Exons	25..1173		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122592	Strand	+
Start	1	End	1320
Name	OJ000450_20.0420.C5.o2.np	Method	AAT/NAP
Start	238	End	1320
GI	629693	Score	531
Exons	238..1320		
GI Descrip.	probable integrase - common tobacco (fragment) gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122593	Strand	+
Start	7485	End	9696
Name	OJ000450_20.0420.C5.o3.gs	Method	GENSCAN
Start	7485	End	9696
GI	none	Score	.6
Exons	7485..7593, 8028..8248, 9496..9696		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122594	Strand	+
Start	17017	End	19441
Name	OJ000450_20.0420.C5.o2.gp	Method	AAT/GAP
Start	16711	End	19123
GI	none	Score	966
Exons	16711..17119, 19028..19123		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122594	Strand	+
Start	17017	End	19441
Name	OJ000450_20.0420.C5.o4.gs	Method	GENSCAN
Start	17017	End	19441
GI	none	Score	.64
Exons	17017..17119, 19028..19226, 19273..19441		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122595	Strand	+
Start	32621	End	36247
Name	OJ000450_20.0420.C5.o3.np	Method	AAT/NAP
Start	32621	End	36247
GI	7486855	Score	484
Exons	32621..32885, 32993..33084, 35772..35951, 36044..36247		
GI Descrip.	hypothetical protein T10P11.3.1 - Arabidopsis thaliana gi|3892058|gb|AAC78271.1|AAC78271 (AC002330) putative glutamate-/aspartate-binding peptide [Arabidopsis thaliana] gi|7269754|emb|CAB77754.1| (AL161495) putative glutamate-/aspartate-binding peptide [Arabidopsis thaliana]		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122596	Strand	+
Start	40697	End	45846
Name	OJ000450_20.0420.C5.o8.gs	Method	GENSCAN
Start	40697	End	45846
GI	none	Score	.45
Exons	40697..40704, 41480..41593, 42177..42468, 42650..42786, 42959..42978, 44193..44376, 45687..45846		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122597	Strand	+
Start	53712	End	56425
Name	OJ000450_20.0420.C5.o5.np	Method	AAT/NAP
Start	53667	End	56425
GI	1839188	Score	793
Exons	53667..53811, 54111..54177, 54323..54425, 55082..55152, 55272..55335, 55420..55485, 55597..55644, 55725..55787, 55861..55917, 56065..56223, 56357..56425		
GI Descrip.	(U86081) root hair defective 3 [Arabidopsis thaliana]		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122597	Strand	+
Start	53712	End	56425
Name	OJ000450_20.0420.C5.o11.gs	Method	GENSCAN
Start	53712	End	56425
GI	none	Score	.82
Exons	53712..53811, 54111..54177, 55000..55152, 55272..55335, 55597..55644, 55725..55787, 55861..55917, 56065..56223,		

56357..56425

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122598	Strand	-
Start	1773	End	5671
Name	OJ000450_20.0420.C5.o2.gs	Method	GENSCAN
Start	1773	End	5671
GI	none	Score	.59
Exons	1773..1954, 2005..2314, 2390..2494, 2779..3087, 3198..3407, 3519..4545, 4763..4907, 5596..5671		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122599	Strand	-
Start	24342	End	27017
Name	OJ000450_20.0420.C5.o5.gs	Method	GENSCAN
Start	24342	End	27017
GI	none	Score	.53
Exons	24342..24409, 25363..25430, 26953..27017		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122600	Strand	-
Start	36028	End	36466
Name	OJ000450_20.0420.C5.o4.gp	Method	AAT/GAP
Start	36028	End	36466
GI	uC-osflcyp169c05a1	Score	831
Exons	36028..36466		
GI Descrip.	'3892058/gb|AAC78271.1|AAC78271 3.0e-17 (AC002330) putative glutamate-/aspartate-binding peptide [Arabidopsis thaliana]'		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122601	Strand	-
Start	37553	End	40432
Name	OJ000450_20.0420.C5.o7.gs	Method	GENSCAN
Start	37553	End	40432
GI	none	Score	.58
Exons	37553..37685, 37829..37942, 38311..38341, 40345..40432		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122602	Strand	-
Start	42207	End	43609
Name	OJ000450_20.0420.C5.o4.np	Method	AAT/NAP
Start	42207	End	43609
GI	4651204	Score	119
Exons	42207..42402, 43578..43609		
GI Descrip.	(AB026262) ring finger protein [Cicer arietinum]		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122603	Strand	-
Start	48248	End	48709
Name	OJ000450_20.0420.C5.o2.ts	Method	TBLASTX:Soybean
Start	292	End	693
GI	none	Score	240
Exons	292..693, 399..515		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122603	Strand	-
Start	48248	End	48709

Name	OJ000450_20.0420.C5.o4.tm	Method	TBLASTX:Maize
Start	307	End	672
GI	none	Score	82
Exons	307..450, 448..672		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122603	Strand	-
Start	48248	End	48709
Name	OJ000450_20.0420.C5.o1.tw	Method	TBLASTX:Wheat
Start	853	End	1260
GI	none	Score	201
Exons	853..1260, 861..1226		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122603	Strand	-
Start	48248	End	48709
Name	OJ000450_20.0420.C5.o4.ts	Method	TBLASTX:Soybean
Start	1036	End	1269
GI	none	Score	201
Exons	1036..1269, 1038..1199		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122603	Strand	-
Start	48248	End	48709
Name	OJ000450_20.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	32702	End	36223
GI	none	Score	89
Exons	32702..32836, 32992..33087, 33021..33074, 35778..35954, 35789..35929, 36041..36223, 36043..36207		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122603	Strand	-
Start	48248	End	48709
Name	OJ000450_20.0420.C5.o3.ts	Method	TBLASTX:Soybean
Start	32702	End	36226
GI	none	Score	97
Exons	32702..32827, 32995..33063, 35771..35908, 35778..35957, 35856..35954, 36014..36226, 36046..36210		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122603	Strand	-
Start	48248	End	48709
Name	OJ000450_20.0420.C5.o9.gs	Method	GENSCAN
Start	48248	End	48709
GI	none	Score	.89
Exons	48248..48709		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122604	Strand	
Start	53772	End	56427
Name	OJ000450_20.0420.C5.o2.tm	Method	TBLASTX:Maize
Start	53772	End	55650
GI	none	Score	69
Exons	53772..53825, 54109..54177, 54110..54178, 54315..54425, 54321..54422, 55079..55153, 55081..55146, 55269..55337, 55273..55338, 55419..55484, 55438..55485, 55594..55650		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122604	Strand	
Start	53772	End	56427
Name	OJ000450_20.0420.C5.o1.tc	Method	TBLASTX:Cress
Start	55281	End	56425
GI	none	Score	82
Exons	55281..55337, 55282..55338, 55413..55481, 55438..55485, 55561..55656, 55722..55790, 55722..55811, 55860..55919, 55861..55920, 56058..56234, 56062..56235, 56357..56425, 56359..56415		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122604	Strand	
Start	53772	End	56427
Name	OJ000450_20.0420.C5.o1.ts	Method	TBLASTX:Soybean
Start	55743	End	56425
GI	none	Score	48
Exons	55743..55790, 55861..55947, 56058..56225, 56062..56235, 56357..56425		

Seq. No.	58731	Seq. ID	OJ000450_20.0420.C5
Gene No.	122604	Strand	
Start	53772	End	56427
Name	OJ000450_20.0420.C5.o3.tm	Method	TBLASTX:Maize
Start	56116	End	56427
GI	none	Score	177
Exons	56116..56235, 56116..56226, 56118..56234, 56354..56425, 56357..56425, 56359..56427		

Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122605	Strand	+
Start	1	End	4687
Name	OJ000450_20.0420.C6.o1.np	Method	AAT/NAP
Start	1	End	4022
GI	1839188	Score	932
Exons	1..84, 163..254, 622..700, 1073..1237, 1665..1789, 1928..2190, 2312..2408, 2498..2659, 2743..2847, 3168..3262, 3388..3484, 3774..3831, 3864..4022		
GI Descrip.	(U86081) root hair defective 3 [Arabidopsis thaliana]		

Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122605	Strand	+
Start	1	End	4687
Name	OJ000450_20.0420.C6.o1.gs	Method	GENSCAN
Start	19	End	4687
GI	none	Score	.7
Exons	19..84, 499..527, 622..700, 1073..1166, 1665..1754, 2055..2190, 2312..2408, 2498..2659, 2743..2847, 3168..3262, 3388..3484, 3774..3989, 4616..4687		

Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122605	Strand	+
Start	1	End	4687
Name	OJ000450_20.0420.C6.o1.gp	Method	AAT/GAP
Start	2573	End	4077
GI	28932_1.R1084	Score	1265
Exons	2573..2659, 2743..2847, 3168..3262, 3388..3484, 3774..4077		

GI Descrip.	'1839188 2.0e-39 (U86081) root hair defective 3 [Arabidopsis thaliana]'		
Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122606	Strand	-
Start	6189	End	7153
Name	OJ000450_20.0420.C6.o1.tm	Method	TBLASTX:Maize
Start	1079	End	2410
GI	none	Score	60
Exons	1079..1138, 1083..1142, 1085..1141, 1144..1191, 1145..1192, 1149..1193, 1673..1726, 1718..1789, 1727..1789, 1919..2191, 1927..2190, 2301..2405, 2309..2404, 2310..2405, 2311..2406, 2312..2410		
Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122606	Strand	-
Start	6189	End	7153
Name	OJ000450_20.0420.C6.o1.ts	Method	TBLASTX:Soybean
Start	2105	End	2569
GI	none	Score	95
Exons	2105..2191, 2107..2190, 2301..2423, 2309..2437, 2498..2569, 2506..2565		
Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122606	Strand	-
Start	6189	End	7153
Name	OJ000450_20.0420.C6.o2.gp	Method	AAT/GAP
Start	5739	End	7153
GI	840_1.R1084	Score	2771
Exons	5739..7153		
GI Descrip.	'4105681 1.0e-141 (AF049348) unknown [Oryza sativa]'		
Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122606	Strand	-
Start	6189	End	7153
Name	OJ000450_20.0420.C6.o2.np	Method	AAT/NAP
Start	6188	End	7153
GI	4105681	Score	1849
Exons	6188..7153		
GI Descrip.	(AF049348) unknown [Oryza sativa]		
Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122606	Strand	-
Start	6189	End	7153
Name	OJ000450_20.0420.C6.o2.gs	Method	GENSCAN
Start	6189	End	7055
GI	none	Score	1
Exons	6189..7055		
Seq. No.	58732	Seq. ID	OJ000450_20.0420.C6
Gene No.	122606	Strand	-
Start	6189	End	7153
Name	OJ000450_20.0420.C6.o2.tm	Method	TBLASTX:Maize
Start	6225	End	7079
GI	none	Score	46
Exons	6225..6311, 6237..6311, 6237..6311, 6240..6308, 6259..6300, 6262..6300, 6262..6300, 6372..6455, 6372..6437, 6375..6455,		

6393..6470, 6393..6470, 6394..6444, 6394..6444, 6394..6456,
6429..6455, 6522..6605, 6522..6599, 6522..6602, 6522..6608,
6534..6587, 6540..6605, 6573..6605, 6648..6731, 6648..6713,
6648..6740, 6648..6728, 6657..6746, 6666..6731, 6699..6740,
6786..6863, 6786..6845, 6786..6941, 6789..6914, 6798..6848,
6801..6899, 6801..6992, 6814..6900, 6831..6863, 6873..6965,
6876..6983, 6886..7038, 6901..6957, 6903..6965, 6912..6983,
6921..7034, 6966..6983, 7023..7073, 7023..7067, 7023..7061,
7035..7079

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122607	Strand	+
Start	2992	End	4907
Name	OJ000450_20.0420.C7.o1.gp	Method	AAT/GAP
Start	2992	End	4600
GI	450_1.R1084	Score	1517
Exons	2992..3414, 4010..4054, 4211..4600		
GI Descrip.	'283006/pir||S28608 9.0e-37 osc6 protein - rice'		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122607	Strand	+
Start	2992	End	4907
Name	OJ000450_20.0420.C7.o1.gs	Method	GENSCAN
Start	3060	End	4907
GI	none	Score	.91
Exons	3060..3414, 4825..4907		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122607	Strand	+
Start	2992	End	4907
Name	OJ000450_20.0420.C7.o1.np	Method	AAT/NAP
Start	3060	End	4060
GI	283006	Score	550
Exons	3060..3414, 4010..4060		
GI Descrip.	osc6 protein - rice		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122608	Strand	+
Start	5343	End	5450
Name	OJ000450_20.0420.C7.o2.gp	Method	AAT/GAP
Start	5343	End	5450
GI	LIB3477-003-P1-K1-E9	Score	133
Exons	5343..5450		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122609	Strand	+
Start	7539	End	10595
Name	OJ000450_20.0420.C7.o3.np	Method	AAT/NAP
Start	7539	End	10595
GI	6498436	Score	274
Exons	7539..7598, 9965..10211, 10465..10595		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7

Gene No.	122609	Strand	+
Start	7539	End	10595
Name	OJ000450_20.0420.C7.o2.np	Method	AAT/NAP
Start	7670	End	8561
GI	5852178	Score	427
Exons	7670..7967, 7999..8102, 8466..8561		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122609	Strand	+
Start	7539	End	10595
Name	OJ000450_20.0420.C7.o3.gp	Method	AAT/GAP
Start	8696	End	9127
GI	2428185	Score	705
Exons	8696..9127		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122609	Strand	+
Start	7539	End	10595
Name	OJ000450_20.0420.C7.o4.gp	Method	AAT/GAP
Start	9673	End	9845
GI	LIB3433-026-P1-K1-C1	Score	258
Exons	9673..9845		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122610	Strand	-
Start	5490	End	6485
Name	OJ000450_20.0420.C7.o2.gs	Method	GENSCAN
Start	5490	End	6485
GI	none	Score	.94
Exons	5490..5794, 6479..6485		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122611	Strand	-
Start	7730	End	13037
Name	OJ000450_20.0420.C7.o3.gs	Method	GENSCAN
Start	7730	End	13037
GI	none	Score	.43
Exons	7730..8127, 9019..9102, 9262..9415, 10453..10530, 11915..12386, 12967..13037		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122611	Strand	-
Start	7730	End	13037
Name	OJ000450_20.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	12627	End	12893
GI	none	Score	280
Exons	12627..12884, 12628..12885, 12867..12893, 12868..12891		

Seq. No.	58733	Seq. ID	OJ000450_20.0420.C7
Gene No.	122612	Strand	
Start	13117	End	13467
Name	OJ000450_20.0420.C7.o1.tm	Method	TBLASTX:Maize

Start	13117	End	13467
GI	none	Score	75
Exons	13117..13209, 13182..13262, 13183..13407, 13193..13360, 13290..13400, 13413..13457, 13414..13467		

Seq. No.	58734	Seq. ID	OJ000320_29.0419.C1
Gene No.	122613	Strand	+
Start	759	End	846
Name	OJ000320_29.0419.C1.o1.gp	Method	AAT/GAP
Start	759	End	846
GI	62565_1.R1084	Score	104
Exons	759..846		
GI Descrip.	'2149018/gb|U70541|OSU70541 1.0e-23 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	58735	Seq. ID	OJ000320_29.0419.C2
Gene No.	122614	Strand	+
Start	1570	End	5243
Name	OJ000320_29.0419.C2.o2.gs	Method	GENSCAN
Start	1570	End	5218
GI	none	Score	.68
Exons	1570..1667, 1829..1954, 2631..2690, 2708..2807, 2956..3142, 3666..3767, 3815..3985, 4082..4211, 4346..4513, 4608..4680, 4841..4933, 5135..5218		

Seq. No.	58735	Seq. ID	OJ000320_29.0419.C2
Gene No.	122614	Strand	+
Start	1570	End	5243
Name	OJ000320_29.0419.C2.o1.np	Method	AAT/NAP
Start	4395	End	5243
GI	4337197	Score	266
Exons	4395..4513, 4614..4680, 4841..4933, 5138..5243		
GI Descrip.	(AC006403) AIG2-like protein [Arabidopsis thaliana]		

Seq. No.	58735	Seq. ID	OJ000320_29.0419.C2
Gene No.	122615	Strand	-
Start	22	End	914
Name	OJ000320_29.0419.C2.o1.gs	Method	GENSCAN
Start	22	End	914
GI	none	Score	.87
Exons	22..914		

Seq. No.	58736	Seq. ID	OJ000320_29.0419.C3
Gene No.	122616	Strand	-
Start	1119	End	2132
Name	OJ000320_29.0419.C3.o1.np	Method	AAT/NAP
Start	1119	End	2132
GI	2618731	Score	427
Exons	1119..1295, 1560..1750, 1848..2132		
GI Descrip.	(U49077) IAA21 [Arabidopsis thaliana]		

Seq. No.	58736	Seq. ID	OJ000320_29.0419.C3
Gene No.	122616	Strand	-
Start	1119	End	2132
Name	OJ000320_29.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	1139	End	1991

GI	none	Score	89
Exons	1139..1294, 1158..1301, 1555..1686, 1559..1750, 1562..1753, 1857..1991		

Seq. No.	58736	Seq. ID	OJ000320_29.0419.C3
Gene No.	122616	Strand	-
Start	1119	End	2132
Name	OJ000320_29.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1142	End	2108
GI	none	Score	78
Exons	1142..1294, 1157..1294, 1173..1301, 1559..1750, 1561..1752, 1617..1751, 1845..2108, 1846..2013		

Seq. No.	58736	Seq. ID	OJ000320_29.0419.C3
Gene No.	122616	Strand	-
Start	1119	End	2132
Name	OJ000320_29.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1166	End	2054
GI	none	Score	144
Exons	1166..1294, 1173..1295, 1180..1296, 1559..1750, 1617..1751, 1845..1874, 1845..1871, 1899..2054, 1913..2008, 1918..2010		

Seq. No.	58736	Seq. ID	OJ000320_29.0419.C3
Gene No.	122616	Strand	-
Start	1119	End	2132
Name	OJ000320_29.0419.C3.o2.gs	Method	GENSCAN
Start	1556	End	2054
GI	none	Score	.66
Exons	1556..1750, 1848..2054		

Seq. No.	58737	Seq. ID	OJ000320_29.0419.C4
Gene No.	122617	Strand	-
Start	1	End	1595
Name	OJ000320_29.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1595
GI	4103243	Score	185
Exons	1..66, 149..217, 367..861, 1164..1373, 1533..1595		
GI Descrip.	(AF022368) BIPOSTO [Arabidopsis thaliana]		

Seq. No.	58737	Seq. ID	OJ000320_29.0419.C4
Gene No.	122617	Strand	-
Start	1	End	1595
Name	OJ000320_29.0419.C4.o1.gs	Method	GENSCAN
Start	63	End	1356
GI	none	Score	.52
Exons	63..1356		

Seq. No.	58737	Seq. ID	OJ000320_29.0419.C4
Gene No.	122617	Strand	-
Start	1	End	1595
Name	OJ000320_29.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	202	End	1379
GI	none	Score	74
Exons	202..369, 227..292, 481..558, 482..565, 919..1242, 1067..1243, 1225..1371, 1237..1371, 1251..1379		

Seq. No.	58737	Seq. ID	OJ000320_29.0419.C4

Gene No.	122617	Strand	-
Start	1	End	1595
Name	OJ000320_29.0419.C4.o1.gp	Method	AAT/GAP
Start	1131	End	1243
GI	none	Score	218
Exons	1131..1243		

Seq. No.	58738	Seq. ID	OJ000320_29.0419.C5
Gene No.	122618	Strand	+
Start	339	End	909
Name	OJ000320_29.0419.C5.o1.gs	Method	GENSCAN
Start	339	End	909
GI	none	Score	.8
Exons	339..349, 649..741, 804..909		

Seq. No.	58739	Seq. ID	OJ000320_29.0419.C7
Gene No.	122619	Strand	+
Start	1	End	509
Name	OJ000320_29.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	509
GI	6498436	Score	111
Exons	1..111, 399..509		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	58739	Seq. ID	OJ000320_29.0419.C7
Gene No.	122620	Strand	-
Start	319	End	608
Name	OJ000320_29.0419.C7.o1.gs	Method	GENSCAN
Start	319	End	608
GI	none	Score	.79
Exons	319..499, 526..608		

Seq. No.	58740	Seq. ID	OJ000320_29.0419.C8
Gene No.	122621	Strand	+
Start	583	End	648
Name	OJ000320_29.0419.C8.o1.gs	Method	GENSCAN
Start	583	End	648
GI	none	Score	.58
Exons	583..648		

Seq. No.	58741	Seq. ID	OJ000320_29.0419.C9
Gene No.	122622	Strand	+
Start	433	End	561
Name	OJ000320_29.0419.C9.o1.gs	Method	GENSCAN
Start	433	End	561
GI	none	Score	.9
Exons	433..561		

Seq. No.	58741	Seq. ID	OJ000320_29.0419.C9
Gene No.	122623	Strand	+
Start	939	End	1315
Name	OJ000320_29.0419.C9.o1.np	Method	AAT/NAP
Start	939	End	1315
GI	6090879	Score	151
Exons	939..1157, 1297..1315		
GI Descrip.	(AF169966) putative cycloartenol synthase [Oryza sativa]		

Seq. No.	58741	Seq. ID	OJ000320_29.0419.C9
Gene No.	122624	Strand	-
Start	942	End	1171
Name	OJ000320_29.0419.C9.o2.gs	Method	GENSCAN
Start	942	End	1171
GI	none	Score	.54
Exons	942..1171		

Seq. No.	58742	Seq. ID	OJ000320_29.0419.C10
Gene No.	122625	Strand	+
Start	43	End	3572
Name	OJ000320_29.0419.C10.o1.np	Method	AAT/NAP
Start	43	End	3572
GI	6090879	Score	972
Exons	43..70, 167..319, 534..734, 1205..1294, 1731..1925, 2043..2127, 3121..3287, 3475..3572		
GI Descrip.	(AF169966) putative cycloartenol synthase [Oryza sativa]		

Seq. No.	58742	Seq. ID	OJ000320_29.0419.C10
Gene No.	122625	Strand	+
Start	43	End	3572
Name	OJ000320_29.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	531	End	1805
GI	none	Score	279
Exons	531..767, 534..734, 1205..1294, 1206..1292, 1219..1293, 1728..1805, 1728..1802, 1730..1804		

Seq. No.	58742	Seq. ID	OJ000320_29.0419.C10
Gene No.	122625	Strand	+
Start	43	End	3572
Name	OJ000320_29.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	540	End	3570
GI	none	Score	229
Exons	540..767, 641..730, 1205..1294, 1207..1290, 1724..1921, 1728..1928, 1728..1919, 1730..1927, 2034..2129, 2042..2128, 3096..3185, 3098..3289, 3099..3287, 3219..3293, 3457..3570, 3474..3566		

Seq. No.	58742	Seq. ID	OJ000320_29.0419.C10
Gene No.	122625	Strand	+
Start	43	End	3572
Name	OJ000320_29.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	540	End	1279
GI	none	Score	222
Exons	540..767, 644..736, 666..767, 1204..1275, 1205..1279		

Seq. No.	58742	Seq. ID	OJ000320_29.0419.C10
Gene No.	122625	Strand	+
Start	43	End	3572
Name	OJ000320_29.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	1603	End	3572
GI	none	Score	68
Exons	1603..1683, 1724..1813, 1728..1928, 1730..1927, 1738..1929, 2034..2129, 2042..2128, 2196..2249, 3098..3289, 3099..3287, 3117..3293, 3457..3567, 3474..3572		

Seq. No.	58742	Seq. ID	OJ000320_29.0419.C10

Gene No.	122625	Strand	+
Start	43	End	3572
Name	OJ000320_29.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	2034	End	3572
GI	none	Score	151
Exons	2034..2129, 2042..2128, 3096..3332, 3099..3287, 3128..3289, 3142..3333, 3440..3568, 3451..3570, 3472..3567, 3474..3572		

Seq. No.	58743	Seq. ID	OJ000320_29.0419.C11
Gene No.	122626	Strand	+
Start	95	End	1098
Name	OJ000320_29.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	92	End	1073
GI	none	Score	178
Exons	92..217, 103..216, 105..230, 470..568, 993..1073, 1009..1071		

Seq. No.	58743	Seq. ID	OJ000320_29.0419.C11
Gene No.	122626	Strand	+
Start	95	End	1098
Name	OJ000320_29.0419.C11.o1.np	Method	AAT/NAP
Start	95	End	1098
GI	4589852	Score	277
Exons	95..217, 476..569, 1007..1098		
GI Descrip.	(AB025968) cycloartenol synthase [Glycyrrhiza glabra]		

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122627	Strand	+
Start	119	End	999
Name	OJ000320_29.0419.C12.o1.np	Method	AAT/NAP
Start	119	End	581
GI	6090879	Score	222
Exons	119..213, 468..581		
GI Descrip.	(AF169966) putative cycloartenol synthase [Oryza sativa]		

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122627	Strand	+
Start	119	End	999
Name	OJ000320_29.0419.C12.o1.gs	Method	GENSCAN
Start	130	End	999
GI	none	Score	.65
Exons	130..213, 422..568, 934..999		

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122628	Strand	-
Start	1455	End	6681
Name	OJ000320_29.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	142	End	569
GI	none	Score	64
Exons	142..213, 304..333, 462..569, 464..568		

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122628	Strand	-
Start	1455	End	6681
Name	OJ000320_29.0419.C12.o2.gs	Method	GENSCAN
Start	1455	End	6681
GI	none	Score	.49
Exons	1455..1771, 3073..3342, 3778..3917, 4051..4767, 6214..6287,		

6476..6681

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122628	Strand	-
Start	1455	End	6681
Name	OJ000320_29.0419.C12.o2.np	Method	AAT/NAP
Start	3827	End	4718
GI	5931645	Score	461
Exons	3827..3917, 4051..4718		
GI Descrip.	(AJ011624) squamosa promoter binding protein-like 2 [Arabidopsis thaliana] gi|5931649|emb|CAB56578.1| (AJ011626) squamosa promoter binding protein-like 2 [Arabidopsis thaliana]		

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122628	Strand	-
Start	1455	End	6681
Name	OJ000320_29.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	3875	End	4241
GI	none	Score	143
Exons	3875..3919, 4048..4185, 4050..4241		

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122628	Strand	-
Start	1455	End	6681
Name	OJ000320_29.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	3893	End	4232
GI	none	Score	140
Exons	3893..3919, 4050..4232, 4054..4197		

Seq. No.	58744	Seq. ID	OJ000320_29.0419.C12
Gene No.	122628	Strand	-
Start	1455	End	6681
Name	OJ000320_29.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	4050	End	4548
GI	none	Score	37
Exons	4050..4070, 4054..4068, 4077..4193, 4077..4352, 4078..4197, 4097..4333, 4222..4353, 4468..4548		

Seq. No.	58745	Seq. ID	OJ000320_29.0419.C13
Gene No.	122629	Strand	-
Start	422	End	1440
Name	OJ000320_29.0419.C13.o1.gs	Method	GENSCAN
Start	422	End	1440
GI	none	Score	.59
Exons	422..802, 1294..1440		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122630	Strand	+
Start	786	End	1496
Name	OJ000320_29.0419.C14.o1.gp	Method	AAT/GAP
Start	786	End	1496
GI	37249_1.R1084	Score	1403
Exons	786..1496		
GI Descrip.	'5042412/gb|AAD38251.1|AC006193_7 1.0e-22 (AC006193) Similar to glucan endo-1,3-beta-glucosidase precursor [Arabidopsis thaliana]'		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	984	End	1992
GI	none	Score	52
Exons	984..1070, 1042..1476, 1043..1477, 1477..1989, 1481..1960, 1486..1992		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o1.np	Method	AAT/NAP
Start	1081	End	4252
GI	7486497	Score	1466
Exons	1081..2182, 3914..4252		
GI Descrip.	hypothetical protein F6E21.60 - Arabidopsis thaliana gi|7270016|emb|CAB79832.1| (AL161578) 1, 3-beta-glucanase-like protein [Arabidopsis thaliana]		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	1156	End	1464
GI	none	Score	66
Exons	1156..1464, 1157..1273, 1313..1456		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o3.tc	Method	TBLASTX:Cress
Start	1156	End	1383
GI	none	Score	238
Exons	1156..1383		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	1565	End	1809
GI	none	Score	255
Exons	1565..1801, 1566..1802, 1567..1809		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	1768	End	2190
GI	none	Score	102
Exons	1768..1908, 1775..1909, 1906..2007, 1906..2007, 2005..2190, 2030..2188		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o3.ts	Method	TBLASTX:Soybean

Start	1939	End	4177
GI	none	Score	140
Exons	1939..2190, 2030..2188, 3925..4176, 3941..4177		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	2050	End	4198
GI	none	Score	196
Exons	2050..2190, 2051..2191, 3913..4197, 3914..4198		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o2.tc	Method	TBLASTX:Cress
Start	3931	End	4179
GI	none	Score	167
Exons	3931..4179, 3938..4177		

Seq. No.	58746	Seq. ID	OJ000320_29.0419.C14
Gene No.	122631	Strand	-
Start	1081	End	4388
Name	OJ000320_29.0419.C14.o2.gp	Method	AAT/GAP
Start	4016	End	4388
GI	1632651	Score	688
Exons	4016..4388		

Seq. No.	58747	Seq. ID	OJ000320_29.0419.C15
Gene No.	122632	Strand	+
Start	1056	End	3757
Name	OJ000320_29.0419.C15.o1.np	Method	AAT/NAP
Start	1056	End	3036
GI	6539555	Score	103
Exons	1056..1383, 3014..3036		
GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi|6539592|dbj|BAA88208.1| (AP000837) Similar to mariner transposase (AF078934) [Oryza sativa]		

Seq. No.	58747	Seq. ID	OJ000320_29.0419.C15
Gene No.	122632	Strand	+
Start	1056	End	3757
Name	OJ000320_29.0419.C15.o1.gs	Method	GENSCAN
Start	1946	End	3526
GI	none	Score	.61
Exons	1946..1959, 2965..3526		

Seq. No.	58747	Seq. ID	OJ000320_29.0419.C15
Gene No.	122632	Strand	+
Start	1056	End	3757
Name	OJ000320_29.0419.C15.o1.gp	Method	AAT/GAP
Start	2953	End	3466
GI	571936	Score	753
Exons	2953..3208, 3302..3466		

Seq. No.	58747	Seq. ID	OJ000320_29.0419.C15
Gene No.	122632	Strand	+

Start	1056	End	3757
Name	OJ000320_29.0419.C15.o2.np	Method	AAT/NAP
Start	3065	End	3757
GI	7486496	Score	256
Exons	3065..3208, 3302..3508, 3727..3757		
GI Descrip.	hypothetical protein F6E21.40 - Arabidopsis thaliana gi|7270014|emb|CAB79830.1| (AL161578) kinase binding protein-like [Arabidopsis thaliana]		

Seq. No.	58747	Seq. ID	OJ000320_29.0419.C15
Gene No.	122632	Strand	+
Start	1056	End	3757
Name	OJ000320_29.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	3104	End	3522
GI	none	Score	76
Exons	3104..3148, 3302..3508, 3302..3514, 3382..3522, 3405..3521		

Seq. No.	58747	Seq. ID	OJ000320_29.0419.C15
Gene No.	122632	Strand	+
Start	1056	End	3757
Name	OJ000320_29.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	3334	End	3516
GI	none	Score	251
Exons	3334..3516, 3335..3508		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o1.gp	Method	AAT/GAP
Start	1	End	148
GI	35458_1.R1084	Score	131
Exons	1..66, 111..148		
GI Descrip.	'3868853/dbj|BAA34247| 1.0e-21 (AB013853) GPI-anchored protein [Vigna radiata]'		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	4838
GI	7486496	Score	1429
Exons	1..33, 407..498, 633..708, 831..906, 1013..1171, 1615..1695, 1792..1827, 1916..1984, 2782..2850, 2993..3046, 3192..3266, 3469..3561, 3645..3748, 3857..3905, 3977..4063, 4187..4292, 4402..4489, 4581..4674, 4758..4838		
GI Descrip.	hypothetical protein F6E21.40 - Arabidopsis thaliana gi|7270014|emb|CAB79830.1| (AL161578) kinase binding protein-like [Arabidopsis thaliana]		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	236	End	658
GI	none	Score	143
Exons	236..346, 237..368, 238..363, 398..472, 414..545, 427..510, 444..521, 601..657, 602..658		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o1.gs	Method	GENSCAN
Start	265	End	3755
GI	none	Score	.75
Exons	265..330, 435..512, 1013..1099, 1255..1330, 1601..1695, 1916..1984, 2782..2850, 3192..3266, 3645..3755		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o4.tm	Method	TBLASTX:Maize
Start	828	End	1116
GI	none	Score	114
Exons	828..896, 832..903, 832..900, 995..1105, 1007..1102, 1012..1116, 1012..1110		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1007	End	4620
GI	none	Score	125
Exons	1007..1102, 1612..1698, 1615..1695, 1797..1823, 1909..1980, 1909..1980, 1910..1984, 1910..2005, 2986..3051, 2993..3052, 3182..3265, 3182..3262, 3183..3266, 3465..3563, 3469..3564, 3473..3571, 3475..3567, 3619..3735, 3639..3773, 3644..3763, 3857..3913, 3858..3914, 3961..4065, 3974..4066, 3977..4066, 4186..4293, 4187..4294, 4400..4492, 4400..4501, 4401..4493, 4582..4620		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o5.tm	Method	TBLASTX:Maize
Start	1251	End	1967
GI	none	Score	47
Exons	1251..1286, 1255..1287, 1295..1330, 1297..1329, 1599..1688, 1600..1698, 1608..1694, 1610..1726, 1786..1809, 1786..1827, 1905..1961, 1909..1965, 1910..1966, 1911..1967		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	2773	End	3683
GI	none	Score	55
Exons	2773..2841, 2774..2842, 2986..3051, 2993..3052, 3183..3266, 3188..3265, 3466..3561, 3468..3563, 3469..3564, 3619..3678, 3639..3683, 3644..3682		

Seq. No.	58748	Seq. ID	OJ000320_29.0419.C16
Gene No.	122633	Strand	+
Start	1	End	5029
Name	OJ000320_29.0419.C16.o1.tm	Method	TBLASTX:Maize